Riverdeep Correlations

DESTINATION Math.

Correlation of Destination Math ® Courseware to Missouri State Standards

April - 2005

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Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
Kindergarten							
Number and Operations							
1. Understand numbers, ways of representing numbers, relationships among numbers and number systems							
A. Read, write and compare numbers							
rote counts to 100	Module: Number Sense Unit: Numbers from 1 to 5 Session: Counting from 1 to 5						
	Module: Number Sense Unit: Numbers from 1 to 5 Session: Creating Sets of 1 to 5						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Number Sense Unit: Numbers from 1 to 5 Session: Creating Representations of the Numbers from 1 to 5						
	Module: Number Sense Unit: Numbers from 1 to 10 Session: Counting from 5 to 10						
	Module: Number Sense Unit: Numbers from 1 to 10 Session: Creating Sets of 5 to 10						
	Module: Number Sense Unit: Numbers from 1 to 10 Session: Creating Representations of the Numbers from 5 to 10						
	Module: Number Sense Unit: Numbers to 100 Session: Counting from 10 to 20						
	Module: Number Sense Unit: Numbers to 100 Session: Counting from 20 to 50						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Number Sense Unit: Numbers to 100 Session: Counting from 50 to 100						
	Module: Number Sense Unit: Comparing and Ordering Session: More Than, Less Than, or The Same						
	Module: Number Sense Unit: Numbers from 1 to 10 Session: One More Than						
	Module: Number Sense Unit: Numbers from 1 to 10 Session: One Fewer Than and Zero						
B. Represent and use rational numbers							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
C. Compose and Decompose numbers							
connect number words (orally) and quantities they represent	Module: Number Sense Unit: Numbers from 1 to 5 Session: Counting from 1 to 5						
	Module: Number Sense Unit: Numbers from 1 to 5 Session: Creating Sets of 1 to 5						
	Module: Number Sense Unit: Numbers from 1 to 5 Session: Creating Representations of the Numbers from 1 to 5						
	Module: Number Sense Unit: Numbers from 1 to 10 Session: Counting from 5 to 10						
	Module: Number Sense Unit: Numbers from 1 to 10 Session: Creating Sets of 5 to 10						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Number Sense Unit: Numbers from 1 to 10 Session: Creating Representations of the Numbers from 5 to 10						
	Module: Number Sense Unit: Numbers to 100 Session: Counting from 10 to 20						
	Module: Number Sense Unit: Numbers to 100 Session: Counting from 20 to 50						
	Module: Number Sense Unit: Numbers to 100 Session: Counting from 50 to 100						
	Module: Number Sense Unit: Comparing and Ordering Session: More Than, Less Than, or The Same						
	Module: Number Sense Unit: Numbers from 1 to 10 Session: One More Than						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Number Sense Unit: Numbers from 1 to 10 Session: One Fewer Than and Zero						
D. Classify and describe numeric relationships							
2. Understand meanings of operations and how they relate to one another							
A. Represent Operations							
B. Describe effects of operations							
C. Apply properties of operations							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
D. Apply operations on real and complex numbers							
3. Compute fluently and make reasonable estimates							
A. Describe or represent mental strategies							
recognize numerals up to 31	Module: Number Sense Unit: Numbers from 1 to 5 Session: Counting from 1 to 5						
	Module: Number Sense Unit: Numbers from 1 to 5 Session: Creating Sets of 1 to 5						
	Module: Number Sense Unit: Numbers from 1 to 5 Session: Creating Representations of the Numbers from 1 to 5						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Number Sense Unit: Numbers from 1 to 10 Session: Counting from 5 to 10						
	Module: Number Sense Unit: Numbers from 1 to 10 Session: Creating Sets of 5 to 10						
	Module: Number Sense Unit: Numbers from 1 to 10 Session: Creating Representations of the Numbers from 5 to 10						
	Module: Number Sense Unit: Numbers to 100 Session: Counting from 10 to 20						
	Module: Number Sense Unit: Numbers to 100 Session: Counting from 20 to 50						
	Module: Number Sense Unit: Numbers from 1 to 10 Session: One More Than						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Number Sense Unit: Numbers from 1 to 10 Session: One Fewer Than and Zero						
B. Develop and demonstrate fluency							
C. Compute problems							
D. Estimate and justify solutions							
E. Use proportional reasoning							
Algebraic Relationships							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
1. Understand patterns, relations and functions							
A. Recognize and extend patterns							
recognize or repeat sequences of sounds or shapes	Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes						
	Module: Algebraic Thinking Unit: Patterns and Displays Session: Number Patterns						
B. Create and analyze patterns							
create and continue patterns	Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Algebraic Thinking Unit: Patterns and Displays Session: Number Patterns						
C. Classify objects and representations							
sort objects by size	Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes						
	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						
D. Identify and compare functions							
E. Describe the effects of parameter changes							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
2. Represent and analyze mathematical situations and structures using algebraic symbols							
A. Represent mathematical situations							
B. Describe and use mathematical manipulation							
C. Utilize equivalent forms							
D. Utilize systems							
3. Use mathematical models to represent and understand quantitative relationships							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Use mathematical models							
model situations that involve whole numbers, using pictures, objects or symbols	Module: Number Sense Unit: Numbers from 1 to 5 Session: Creating Sets of 1 to 5						
	Module: Number Sense Unit: Numbers from 1 to 5 Session: Creating Representations of the Numbers from 1 to 5						
	Module: Number Sense Unit: Numbers from 1 to 10 Session: Creating Sets of 5 to 10						
	Module: Number Sense Unit: Numbers from 1 to 10 Session: Creating Representations of the Numbers from 5 to 10						
	Module: Number Sense Unit: Numbers to 100 Session: Counting from 10 to 20						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Number Sense Unit: Numbers to 100 Session: Counting from 20 to 50						
	Module: Number Sense Unit: Numbers to 100 Session: Counting from 50 to 100						
4. Analyze change in various contexts							
A. Analyze change							
Geometric and Spatial Relationships							
1. Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Describe and use geometric relationships							
sort 2- and 3-dimensional shapes using physical models (circle, rectangle, triangle, sphere, rectangular prism, cylinder, pyramid)	Module: Geometry and Measurement Unit: Geometry Session: Triangles and Rectangles						
	Module: Geometry and Measurement Unit: Geometry Session: Three-Dimensional Shapes						
B. Apply geometric relationships							
C. Compose and decompose shapes							
2. Specify locations and describe spatial relationships using coordinate geometry and other representational systems							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Use coordinate systems							
describe, name and interpret relative positions in space (above, below, front, behind)							
3. Apply transformations and use symmetry to analyze mathematical situations							
A. Use transformations on objects							
B. Use transformations on function							
C. Use symmetry							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
4. Use visualization, spatial reasoning and geometric modeling to solve problems							
A. Recognize and draw three-dimensional representations							
recognize geometric shapes in the student's environment (stop sign, number cube, ball)	Module: Geometry and Measurement Unit: Geometry Session: Triangles and Rectangles						
	Module: Geometry and Measurement Unit: Geometry Session: Three-Dimensional Shapes						
B. Draw and use visual models							
Measurement							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
1. Understand measurable attributes of objects and the units, systems and processes of measurement							
A. Determine unit of measurement							
compare and order objects according to their size or weight	Module: Geometry and Measurement Unit: Measurement Session: Weight						
B. Identify equivalent measures							
C. Tell and use units of time							
describe passage of time using terms such as today, yesterday, tomorrow							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
D. Count and compute money							
identify and know the value of a penny, nickel and dime	Module: Geometry and Measurement Unit: Measurement Session: Money						
2. Apply appropriate techniques, tools and formulas to determine measurements							
A. Use standard or non-standard measurement							
measure with multiple copies of a unit of the same size (e.g., paper clips laid end to end)	Module: Geometry and Measurement Unit: Measurement Session: Length						
B. Use angle measurement							

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C. Apply geometric measurements							
D. Analyze precision							
E. Use relationships within a measurement system							
Data and Probability							
1. Formulate questions that can be addressed with data and collect, organize and display relevant data to answer them							
A. Formulate questions							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
pose questions and gather data about themselves and their surroundings	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						
B. Classify and organize data							
sort items according to their attributes	Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes						
	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						
C. Represent and interpret data							
represent data using physical objects	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
2. Select and use appropriate statistical methods to analyze data							
A. Describe and analyze data							
B. Compare data representations							
C. Represent data algebraically							
3. Develop and evaluate inferences and predictions that are based on data							
A. Develop and evaluate inferences							

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B. Analyze basic statistical techniques							
4. Understand and apply basic concepts of probability							
A. Apply basic concepts of probability							
B. Use and describe compound events							
First Grade							
Number and Operations							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
1. Understand numbers, ways of representing numbers, relationships among numbers and number systems							
A. Read, write and compare numbers							
recognizes "how many" in a set	Module: Number Sense Unit: Numbers from 1 to 5 Session: Counting from 1 to 5						
	Module: Number Sense Unit: Numbers from 1 to 5 Session: Creating Sets of 1 to 5						
	Module: Number Sense Unit: Numbers from 1 to 5 Session: Creating Representations of the Numbers from 1 to 5						
	Module: Number Sense Unit: Numbers from 1 to 10 Session: Counting from 5 to 10						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Number Sense Unit: Numbers from 1 to 10 Session: Creating Sets of 5 to 10						
	Module: Number Sense Unit: Numbers from 1 to 10 Session: Creating Representations of the Numbers from 5 to 10						
	Module: Number Sense Unit: Numbers to 100 Session: Counting from 10 to 20						
	Module: Number Sense Unit: Numbers to 100 Session: Counting from 20 to 50						
	Module: Number Sense Unit: Numbers to 100 Session: Counting from 50 to 100						
B. Represent and use rational numbers							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
C. Compose and Decompose numbers							
compose or decompose numbers using known facts, doubles and close to doubles	Module: Number Sense Unit: Numbers to 100 Session: Counting from 10 to 20	Module: Number Sense Unit: Numbers to 999 Session: Counting by Grouping					
	Module: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10	Module: Number Sense Unit: Numbers to 999 Session: Place Value: Tens and Ones					
	Module: Addition and Subtraction Unit: Addition Session: Comparing within 10						
	Module: Addition and Subtraction Unit: Addition Session: Sums within 20, with 10 as One Addend						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 10						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Number Sense Unit: Numbers from 1 to 10 Session: One More Than						
	Module: Number Sense Unit: Numbers from 1 to 10 Session: One Fewer Than and Zero						
	Module: Number Sense Unit: Comparing and Ordering Session: More Than, Less Than, or The Same						
	Module: Number Sense Unit: Comparing and Ordering Session: Comparing Numbers within 100						
D. Classify and describe numeric relationships							
2. Understand meanings of operations and how they relate to one another							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Represent Operations							
represent a given situation involving addition	Module: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10						
	Module: Addition and Subtraction Unit: Addition Session: Comparing within 10						
	Module: Addition and Subtraction Unit: Addition Session: Sums within 20, with 10 as One Addend						
	Module: Addition and Subtraction Unit: Addition Session: Sums within 20						
B. Describe effects of operations							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
C. Apply properties of operations							
D. Apply operations on real and complex numbers							
3. Compute fluently and make reasonable estimates							
A. Describe or represent mental strategies							
describe or represent the mental strategy used to compute an addition problem	Module: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10						
	Module: Addition and Subtraction Unit: Addition Session: Comparing within 10						

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	Module: Addition and Subtraction Unit: Addition Session: Sums within 20, with 10 as One Addend						
	Module: Addition and Subtraction Unit: Addition Session: Sums within 20						
B. Develop and demonstrate fluency							
develop fluency with basic number relationships of addition and subtraction for sums up to 20	Module: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10						
	Module: Addition and Subtraction Unit: Addition Session: Comparing within 10						
	Module: Addition and Subtraction Unit: Addition Session: Sums within 20, with 10 as One Addend						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Addition and Subtraction Unit: Addition Session: Sums within 20						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 10						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 20						
C. Compute problems							
D. Estimate and justify solutions							
E. Use proportional reasoning							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
Algebraic Relationships							
1. Understand patterns, relations and functions							
A. Recognize and extend patterns							
extend patterns of sound, shape, motion or a simple numeric pattern	Module: Algebraic Thinking Unit: Patterns and Displays Session: Number Patterns						
	Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes						
B. Create and analyze patterns							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
describe how simple repeating patterns are generated	Module: Algebraic Thinking Unit: Patterns and Displays Session: Number Patterns						
	Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes						
C. Classify objects and representations							
classify objects by size or numbers	Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes						
	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						
D. Identify and compare functions							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
E. Describe the effects of parameter changes							
2. Represent and analyze mathematical situations and structures using algebraic symbols							
A. Represent mathematical situations							
represent a mathematical situation as an expression or number sentence	Module: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10						
	Module: Addition and Subtraction Unit: Addition Session: Comparing within 10						
	Module: Addition and Subtraction Unit: Addition Session: Sums within 20, with 10 as One Addend						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Addition and Subtraction Unit: Addition Session: Sums within 20						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 10						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 20						
	Module: Number Sense Unit: Comparing and Ordering Session: More Than, Less Than, or The Same						
B. Describe and use mathematical manipulation							
C. Utilize equivalent forms							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
D. Utilize systems							
3. Use mathematical models to represent and understand quantitative relationships							
A. Use mathematical models							
model situations that involve the addition of whole numbers, using pictures, objects or symbols	Module: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10						
	Module: Addition and Subtraction Unit: Addition Session: Comparing within 10						
	Module: Addition and Subtraction Unit: Addition Session: Sums within 20, with 10 as One Addend						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Addition and Subtraction Unit: Addition Session: Sums within 20						
4. Analyze change in various contexts							
A. Analyze change							
Geometric and Spatial Relationships							
1. Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships							
A. Describe and use geometric relationships							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
recognize and name 2- and 3-dimensional shapes using physical models (circle, triangle, trapezoid, rectangle, rhombus, sphere, rectangular prism, cylinder, pyramid)	Module: Geometry and Measurement Unit: Geometry Session: Triangles and Rectangles						
	Module: Geometry and Measurement Unit: Geometry Session: Three-Dimensional Shapes						
B. Apply geometric relationships							
C. Compose and decompose shapes							
2. Specify locations and describe spatial relationships using coordinate geometry and other representational systems							
A. Use coordinate systems							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
describe, name and interpret relative positions in space (left, right)							
3. Apply transformations and use symmetry to analyze mathematical situations							
A. Use transformations on objects							
use manipulatives to model slides and turns							
B. Use transformations on function							
C. Use symmetry							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
4. Use visualization, spatial reasoning and geometric modeling to solve problems							
A. Recognize and draw three-dimensional representations							
recognize geometric shapes and structures in the student's environment and specify the shape's location	Module: Geometry and Measurement Unit: Geometry Session: Triangles and Rectangles						
	Module: Geometry and Measurement Unit: Geometry Session: Three-Dimensional Shapes						
B. Draw and use visual models							
Measurement							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
1. Understand measurable attributes of objects and the units, systems and processes of measurement							
A. Determine unit of measurement							
select the appropriate tool for the attribute being measured	Module: Geometry and Measurement Unit: Measurement Session: Length	Module: Geometry and Measurement Unit: Geometry Session: Volume					
	Module: Geometry and Measurement Unit: Measurement Session: Weight	Module: Geometry and Measurement Unit: Measurement Session: Temperature					
	Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time						
B. Identify equivalent measures							

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C. Tell and use units of time							
tell time to the nearest hour	Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time						
D. Count and compute money							
count money to fifty cents, including quarters and half dollars	Module: Geometry and Measurement Unit: Measurement Session: Money						
2. Apply appropriate techniques, tools and formulas to determine measurements							
A. Use standard or non-standard measurement							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
use repetition of a single unit to measure something larger than the unit, (e.g., measuring the length of the room with a single meter stick)	Module: Geometry and Measurement Unit: Measurement Session: Length						
B. Use angle measurement							
C. Apply geometric measurements							
D. Analyze precision							
E. Use relationships within a measurement system							
Data and Probability							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
1. Formulate questions that can be addressed with data and collect, organize and display relevant data to answer them							
A. Formulate questions							
pose questions and gather data about themselves and their surroundings	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						
B. Classify and organize data							
sort and classify items according to their attributes	Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes						
	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
C. Represent and interpret data							
represent data using pictures and bar graphs	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						
2. Select and use appropriate statistical methods to analyze data							
A. Describe and analyze data							
B. Compare data representations							
C. Represent data algebraically							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
3. Develop and evaluate inferences and predictions that are based on data							
A. Develop and evaluate inferences							
B. Analyze basic statistical techniques							
4. Understand and apply basic concepts of probability							
A. Apply basic concepts of probability							
B. Use and describe compound events							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
Grade Two							
Number and Operations							
1. Understand numbers, ways of representing numbers, relationships among numbers and number systems							
A. Read, write and compare numbers							
read, write and compare whole numbers less than 100	Module: Number Sense Unit: Numbers to 100 Session: Counting from 10 to 20						
	Module: Number Sense Unit: Numbers to 100 Session: Counting from 20 to 50						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Number Sense Unit: Numbers to 100 Session: Counting from 50 to 100						
	Module: Number Sense Unit: Comparing and Ordering Session: More Than, Less Than, or The Same						
	Module: Number Sense Unit: Comparing and Ordering Session: Comparing Numbers within 100						
	Module: Number Sense Unit: Numbers from 1 to 10 Session: One More Than						
	Module: Number Sense Unit: Numbers from 1 to 10 Session: One Fewer Than and Zero						
B. Represent and use rational numbers							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
recognize 1/2, 1/3 and 1/4 of a shape		Module: Operations with Numbers Unit: Division Session: Fractional Parts					
C. Compose and Decompose numbers							
compose or decompose numbers by using a variety of strategies, such as using known facts, tens or landmark numbers to solve problems	Module: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10	Module: Number Sense Unit: Numbers to 999 Session: Counting by Grouping					
	Module: Addition and Subtraction Unit: Addition Session: Comparing within 10	Module: Number Sense Unit: Numbers to 999 Session: Place Value: Tens and Ones					
	Module: Addition and Subtraction Unit: Addition Session: Sums within 20, with 10 as One Addend						
	Module: Addition and Subtraction Unit: Addition Session: Sums within 20						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 10						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 20						
D. Classify and describe numeric relationships							
skip count by 2s, 5s and 10s	Module: Number Sense Unit: Numbers to 100 Session: Skip-Counting by Tens and Fives						
	Module: Number Sense Unit: Numbers to 100 Session: Skip-Counting by Twos						
2. Understand meanings of operations and how they relate to one another							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Represent Operations							
represent a given situation involving addition or subtraction	Module: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10	Module: Operations with Numbers Unit: Addition and Subtraction Session: Sums Less than 100					
	Module: Addition and Subtraction Unit: Addition Session: Comparing within 10	Module: Operations with Numbers Unit: Addition and Subtraction Session: Differences within 100					
	Module: Addition and Subtraction Unit: Addition Session: Sums within 20, with 10 as One Addend						
	Module: Addition and Subtraction Unit: Addition Session: Sums within 20						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 10						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 20						
B. Describe effects of operations							
C. Apply properties of operations							
D. Apply operations on real and complex numbers							
3. Compute fluently and make reasonable estimates							
A. Describe or represent mental strategies							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
describe or notate the mental strategy used to compute addition or subtraction of whole numbers, including 2-digit numbers	Module: Addition and Subtraction Unit: Addition Session: Sums within 20, with 10 as One Addend	Module: Operations with Numbers Unit: Addition and Subtraction Session: Sums Less than 100					
	Module: Addition and Subtraction Unit: Addition Session: Sums within 20	Module: Operations with Numbers Unit: Addition and Subtraction Session: Differences within 100					
B. Develop and demonstrate fluency							
demonstrate fluency with basic number relationships of addition and subtraction for sums up to 20	Module: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10						
	Module: Addition and Subtraction Unit: Addition Session: Comparing within 10						
	Module: Addition and Subtraction Unit: Addition Session: Sums within 20, with 10 as One Addend						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Addition and Subtraction Unit: Addition Session: Sums within 20						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 10						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 20						
C. Compute problems							
apply and describe the strategy used to compute 2-digit addition or subtraction problems		Module: Operations with Numbers Unit: Addition and Subtraction Session: Sums Less than 100					
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Differences within 100					

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
D. Estimate and justify solutions							
E. Use proportional reasoning							
Algebraic Relationships							
1. Understand patterns, relations and functions							
A. Recognize and extend patterns							
describe and extend simple numeric patterns and change from one representation to another	Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes	Module: Number Sense Unit: Numbers to 999 Session: Expanded Form and Equivalent Representations of a Number					

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Algebraic Thinking Unit: Patterns and Displays Session: Number Patterns	Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties					
		Module: Operations with Numbers Unit: Multiplication Session: Skip Counting to Show Multiplication					
B. Create and analyze patterns							
describe how simple growing patterns are generated		Module: Number Sense Unit: Numbers to 999 Session: Place Value: Hundreds, Tens, and Ones					
		Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties					
C. Classify objects and representations							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
classify objects by size, number or other attributes	Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes						
	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						
D. Identify and compare functions							
E. Describe the effects of parameter changes							
2. Represent and analyze mathematical situations and structures using algebraic symbols							
A. Represent mathematical situations							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
represent a mathematical situation as an expression or number sentence	Module: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10	Module: Operations with Numbers Unit: Multiplication Session: Repeated Addition and Arrays					
	Module: Addition and Subtraction Unit: Addition Session: Comparing within 10	Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties					
	Module: Addition and Subtraction Unit: Addition Session: Sums within 20, with 10 as One Addend						
	Module: Addition and Subtraction Unit: Addition Session: Sums within 20						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 10						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 20						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
B. Describe and use mathematical manipulation							
investigate commutative principle with whole numbers		Module: Operations with Numbers Unit: Addition and Subtraction Session: Sums Less than 100					
		Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties					
		Module: Operations with Numbers Unit: Multiplication Session: Repeated Addition and Arrays					
C. Utilize equivalent forms							
D. Utilize systems							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
3. Use mathematical models to represent and understand quantitative relationships							
A. Use mathematical models							
model situations that involve the addition of whole numbers, using pictures, objects or symbols	Module: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10	Module: Operations with Numbers Unit: Addition and Subtraction Session: Sums Less than 100					
	Module: Addition and Subtraction Unit: Addition Session: Comparing within 10	Module: Operations with Numbers Unit: Addition and Subtraction Session: Differences within 100					
	Module: Addition and Subtraction Unit: Addition Session: Sums within 20, with 10 as One Addend						
	Module: Addition and Subtraction Unit: Addition Session: Sums within 20						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 10						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 20						
4. Analyze change in various contexts							
A. Analyze change							
describe qualitative change, such as students growing taller	Module: Geometry and Measurement Unit: Measurement Session: Length						
Geometric and Spatial Relationships							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
1. Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships							
A. Describe and use geometric relationships							
describe attributes and parts of 2- and 3-dimensional shapes (circle, triangle, trapezoid, rectangle, rhombus, sphere, rectangular prism, cylinder, pyramid)	Module: Geometry and Measurement Unit: Geometry Session: Triangles and Rectangles						
	Module: Geometry and Measurement Unit: Geometry Session: Three-Dimensional Shapes						
B. Apply geometric relationships							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
C. Compose and decompose shapes							
2. Specify locations and describe spatial relationships using coordinate geometry and other representational systems							
A. Use coordinate systems							
find and name locations with simple relationships on a map (coordinate system)	Module: Geometry and Measurement Unit: Geometry Session: Triangles and Rectangles						
3. Apply transformations and use symmetry to analyze mathematical situations							
A. Use transformations on objects							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
use manipulatives to model flips							
B. Use transformations on function							
C. Use symmetry							
recognize and create shapes that have symmetry			Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations				
4. Use visualization, spatial reasoning and geometric modeling to solve problems							
A. Recognize and draw three-dimensional representations							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
recognize and represent shapes from different perspectives	Module: Geometry and Measurement Unit: Geometry Session: Three-Dimensional Shapes						
B. Draw and use visual models							
Measurement							
1. Understand measurable attributes of objects and the units, systems and processes of measurement							
A. Determine unit of measurement							
select an appropriate unit and tool for the attribute being measured	Module: Geometry and Measurement Unit: Measurement Session: Length	Module: Geometry and Measurement Unit: Geometry Session: Volume					

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Geometry and Measurement Unit: Measurement Session: Weight	Module: Geometry and Measurement Unit: Measurement Session: Temperature					
	Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time						
B. Identify equivalent measures							
C. Tell and use units of time							
tell time to the nearest half hour	Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time						
D. Count and compute money							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
count money to a dollar	Module: Geometry and Measurement Unit: Measurement Session: Money	Module: Geometry and Measurement Unit: Measurement Session: Money					
2. Apply appropriate techniques, tools and formulas to determine measurements							
A. Use standard or non-standard measurement							
use tools to measure (size, temperature, time, weight) to the nearest inch, centimeter, degree, hour and pound	Module: Geometry and Measurement Unit: Measurement Session: Length	Module: Geometry and Measurement Unit: Measurement Session: Temperature					
	Module: Geometry and Measurement Unit: Measurement Session: Weight	Module: Geometry and Measurement Unit: Geometry Session: Volume					
	Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
B. Use angle measurement							
C. Apply geometric measurements							
D. Analyze precision							
E. Use relationships within a measurement system							
Data and Probability							
1. Formulate questions that can be addressed with data and collect, organize and display relevant data to answer them							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Formulate questions							
pose questions and gather data about themselves and their surroundings							
B. Classify and organize data							
sort and classify items according to their attributes and organize data about the items	Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes						
	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						
C. Represent and interpret data							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
represent data using pictures and bar graphs	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						
2. Select and use appropriate statistical methods to analyze data							
A. Describe and analyze data							
B. Compare data representations							
C. Represent data algebraically							
3. Develop and evaluate inferences and predictions that are based on data							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Develop and evaluate inferences							
B. Analyze basic statistical techniques							
4. Understand and apply basic concepts of probability							
A. Apply basic concepts of probability							
B. Use and describe compound events							
Grade Three							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
Number and Operations							
1. Understand numbers, ways of representing numbers, relationships among numbers and number systems							
A. Read, write and compare numbers							
read, write and compare whole numbers up to 3 digits	Module: Number Sense Unit: Numbers to 100 Session: Counting from 20 to 50	Module: Number Sense Unit: Numbers to 999 Session: Counting by Grouping					
	Module: Number Sense Unit: Numbers to 100 Session: Counting from 50 to 100	Module: Number Sense Unit: Numbers to 999 Session: Comparing and Ordering					
	Module: Number Sense Unit: Comparing and Ordering Session: More Than, Less Than, or The Same						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Number Sense Unit: Comparing and Ordering Session: Comparing Numbers within 100						
B. Represent and use rational numbers							
represents commonly used fractions: halves, thirds and fourths		Module: Operations with Numbers Unit: Division Session: Fractional Parts	Module: Fractions Unit: Proper and Improper Fractions Session: Proper Fractions				
			Module: Fractions Unit: Proper and Improper Fractions Session: Improper Fractions				
			Module: Fractions Unit: Proper and Improper Fractions Session: Equivalent Fractions				
C. Compose and Decompose numbers							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
recognize equivalent representations for the same number and generate them by decomposing and composing numbers		Module: Number Sense Unit: Numbers to 999 Session: Counting by Grouping	Module: Fractions Unit: Proper and Improper Fractions Session: Equivalent Fractions				
		Module: Number Sense Unit: Numbers to 999 Session: Place Value: Tens and Ones					
		Module: Number Sense Unit: Numbers to 999 Session: Place Value: Hundreds, Tens, and Ones					
		Module: Number Sense Unit: Numbers to 999 Session: Expanded Form and Equivalent Representations of a Number					
		Module: Number Sense Unit: Numbers to 9,999 Session: Place Value: Thousands, Hundreds, Tens, and Ones					
D. Classify and describe numeric relationships							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
classify numbers by their characteristics, including odd and even	Module: Number Sense Unit: Numbers to 100 Session: Skip-Counting by Twos						
2. Understand meanings of operations and how they relate to one another							
A. Represent Operations							
represent a given situation involving multiplication		Module: Operations with Numbers Unit: Multiplication Session: Repeated Addition and Arrays					
		Module: Operations with Numbers Unit: Multiplication Session: Skip Counting to Show Multiplication					
B. Describe effects of operations							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
describe the effects of adding and subtracting whole numbers as well as the relationship between the two operations		Module: Operations with Numbers Unit: Addition and Subtraction Session: Sums Less than 100					
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Estimating and Finding Sums less than 1,000					
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Differences within 100					
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Estimating and Finding Differences within 1,000					
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Estimating and Finding Differences within 9,999					
C. Apply properties of operations							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
apply commutative and identity properties of addition to whole numbers		Module: Operations with Numbers Unit: Addition and Subtraction Session: Sums Less than 100					
		Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties					
D. Apply operations on real and complex numbers							
3. Compute fluently and make reasonable estimates							
A. Describe or represent mental strategies							
B. Develop and demonstrate fluency							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
develop fluency with basic number relationships (12 X 12) of multiplication and division		Module: Operations with Numbers Unit: Multiplication Session: Repeated Addition and Arrays					
		Module: Operations with Numbers Unit: Multiplication Session: Skip Counting to Show Multiplication					
		Module: Operations with Numbers Unit: Multiplication Session: Finding Products Less than 100					
		Module: Operations with Numbers Unit: Division Session: Meaning of Division					
		Module: Operations with Numbers Unit: Division Session: Dividing by a 1-digit Number					
		Module: Operations with Numbers Unit: Division Session: Fractional Parts					

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
C. Compute problems							
apply and describe the strategy used to compute up to a 3-digit addition or subtraction problem		Module: Operations with Numbers Unit: Addition and Subtraction Session: Sums Less than 100					
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Estimating and Finding Sums less than 1,000					
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Differences within 100					
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Estimating and Finding Differences within 1,000					
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Estimating and Finding Differences within 9,999					

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
D. Estimate and justify solutions							
estimate and justify the results of addition and subtraction of whole numbers		Module: Operations with Numbers Unit: Addition and Subtraction Session: Estimating and Finding Sums less than 1,000	Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums				
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Estimating and Finding Differences within 1,000					
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Estimating and Finding Differences within 9,999					
E. Use proportional reasoning							
Algebraic Relationships							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
1. Understand patterns, relations and functions							
A. Recognize and extend patterns							
extend geometric (shapes) and numeric patterns to find the next term	Module: Algebraic Thinking Unit: Patterns and Displays Session: Number Patterns	Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties					
		Module: Number Sense Unit: Numbers to 999 Session: Place Value: Hundreds, Tens, and Ones					
B. Create and analyze patterns							
represent patterns using words, tables or graphs		Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties	Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
C. Classify objects and representations							
D. Identify and compare functions							
E. Describe the effects of parameter changes							
2. Represent and analyze mathematical situations and structures using algebraic symbols							
A. Represent mathematical situations							
represent a mathematical situation as an expression or number sentence		Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties					

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
B. Describe and use mathematical manipulation							
apply the commutative property to addition of whole numbers		Module: Operations with Numbers Unit: Addition and Subtraction Session: Sums Less than 100	Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums				
		Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties					
C. Utilize equivalent forms							
D. Utilize systems							
3. Use mathematical models to represent and understand quantitative relationships							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Use mathematical models							
model problem situations, including multiplication with objects or drawings		Module: Operations with Numbers Unit: Addition and Subtraction Session: Sums Less than 100	Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums				
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Estimating and Finding Sums less than 1,000					
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Differences within 100					
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Estimating and Finding Differences within 1,000					
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Estimating and Finding Differences within 9,999					

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
		Module: Operations with Numbers Unit: Multiplication Session: Repeated Addition and Arrays					
		Module: Operations with Numbers Unit: Multiplication Session: Skip Counting to Show Multiplication					
		Module: Operations with Numbers Unit: Multiplication Session: Finding Products Less than 100					
		Module: Geometry and Measurement Unit: Geometry Session: Area					
4. Analyze change in various contexts							
A. Analyze change							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
describe quantitative change, such as students growing two inches in a year		Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties					
Geometric and Spatial Relationships							
1. Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships							
A. Describe and use geometric relationships							
compare 2- and 3-dimensional shapes by describing their attributes (circle, triangle, trapezoid, rectangle, rhombus, sphere, rectangular prism, cylinder, pyramid)			Module: Geometry Unit: Measurement Session: Lines, Angles, and Circles				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Geometry Unit: Measurement Session: Rectangles and Squares				
			Module: Geometry Unit: Measurement Session: Triangles				
			Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids				
B. Apply geometric relationships							
C. Compose and decompose shapes							
predict the results of putting together or taking apart 2- and 3-dimensional shapes			Module: Geometry Unit: Measurement Session: Rectangles and Squares				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
2. Specify locations and describe spatial relationships using coordinate geometry and other representational systems							
A. Use coordinate systems							
describe location using common language and geometric vocabulary (forward, back, left, right, north, south, east, west)			Module: Geometry Unit: Coordinate Geometry and Algebra Session: The Coordinate Plane				
3. Apply transformations and use symmetry to analyze mathematical situations							
A. Use transformations on objects							
determine if two objects are congruent through a slide, flip or turn			Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
B. Use transformations on function							
C. Use symmetry							
identify lines of symmetry in polygons			Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations				
4. Use visualization, spatial reasoning and geometric modeling to solve problems							
A. Recognize and draw three-dimensional representations							
B. Draw and use visual models							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
Measurement							
1. Understand measurable attributes of objects and the units, systems and processes of measurement							
A. Determine unit of measurement							
identify, justify and use the appropriate unit of measure (linear, time, weight)	Module: Geometry and Measurement Unit: Measurement Session: Length	Module: Geometry and Measurement Unit: Geometry Session: Volume					
	Module: Geometry and Measurement Unit: Measurement Session: Weight	Module: Geometry and Measurement Unit: Measurement Session: Time					
		Module: Geometry and Measurement Unit: Measurement Session: Temperature					

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
B. Identify equivalent measures							
C. Tell and use units of time							
tell time to the nearest five minutes		Module: Geometry and Measurement Unit: Measurement Session: Time					
D. Count and compute money							
determine change from $5.00 and add and subtract money values to $5.00		Module: Geometry and Measurement Unit: Measurement Session: Money					
2. Apply appropriate techniques, tools and formulas to determine measurements							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Use standard or non-standard measurement							
use a referent for measures to make comparisons and estimates	Module: Geometry and Measurement Unit: Measurement Session: Length	Module: Geometry and Measurement Unit: Geometry Session: Area	Module: Geometry Unit: Measurement Session: Rectangles and Squares				
		Module: Geometry and Measurement Unit: Geometry Session: Volume	Module: Geometry Unit: Measurement Session: Triangles				
		Module: Geometry and Measurement Unit: Measurement Session: Temperature					
B. Use angle measurement							
C. Apply geometric measurements							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
determine the perimeter of polygons			Module: Geometry Unit: Measurement Session: Rectangles and Squares				
			Module: Geometry Unit: Measurement Session: Triangles				
			Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids				
			Module: Geometry Unit: Coordinate Geometry and Algebra Session: The Coordinate Plane				
D. Analyze precision							
E. Use relationships within a measurement system							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
Data and Probability							
1. Formulate questions that can be addressed with data and collect, organize and display relevant data to answer them							
A. Formulate questions							
design investigations to address a given question							
B. Classify and organize data							
C. Represent and interpret data							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
read and interpret information from line plots and graphs (bar, line, pictorial)	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs		Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data				
			Module: Decimals Unit: Introduction Session: Ordering and Rounding				
2. Select and use appropriate statistical methods to analyze data							
A. Describe and analyze data							
describe the shape of data and analyze it for patterns			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data				
B. Compare data representations							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
C. Represent data algebraically							
3. Develop and evaluate inferences and predictions that are based on data							
A. Develop and evaluate inferences							
discuss events related to students' experiences as likely or unlikely							
B. Analyze basic statistical techniques							
4. Understand and apply basic concepts of probability							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Apply basic concepts of probability							
B. Use and describe compound events							
Fourth Grade							
Number and Operations							
1. Understand numbers, ways of representing numbers, relationships among numbers and number systems							
A. Read, write and compare numbers							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
read, write and compare decimals to the hundredths place and whole numbers up to 6 digits		Module: Number Sense Unit: Numbers to 999 Session: Comparing and Ordering	Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Whole Numbers to One Million				
		Module: Number Sense Unit: Numbers to 9,999 Session: Comparing and Ordering	Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Ordering and Rounding Whole Numbers				
			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Negative Whole Numbers				
			Module: Decimals Unit: Introduction Session: Tenths, Hundredths, and Thousandths				
			Module: Decimals Unit: Introduction Session: Ordering and Rounding				
B. Represent and use rational numbers							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
use models, benchmarks (0, 1/2 and 1) and equivalent forms to judge the size of fractions			Module: Fractions Unit: Proper and Improper Fractions Session: Proper Fractions				
			Module: Fractions Unit: Proper and Improper Fractions Session: Improper Fractions				
			Module: Fractions Unit: Proper and Improper Fractions Session: Equivalent Fractions				
			Module: Fractions Unit: Proper and Improper Fractions Session: Ordering and Rounding Fractions				
C. Compose and Decompose numbers							
recognize equivalent representations for the same number and generate them by decomposing and composing numbers		Module: Number Sense Unit: Numbers to 999 Session: Place Value: Hundreds, Tens, and Ones	Module: Fractions Unit: Proper and Improper Fractions Session: Proper Fractions				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
		Module: Number Sense Unit: Numbers to 999 Session: Expanded Form and Equivalent Representations of a Number	Module: Fractions Unit: Proper and Improper Fractions Session: Improper Fractions				
		Module: Number Sense Unit: Numbers to 9,999 Session: Place Value: Thousands, Hundreds, Tens, and Ones	Module: Fractions Unit: Proper and Improper Fractions Session: Equivalent Fractions				
			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Whole Numbers to One Million				
			Module: Decimals Unit: Introduction Session: Tenths, Hundredths, and Thousandths				
			Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents				
D. Classify and describe numeric relationships							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
classify and describe numbers by their characteristics, including odd, even and multiples	Module: Number Sense Unit: Numbers to 100 Session: Skip-Counting by Twos	Module: Operations with Numbers Unit: Multiplication Session: Skip Counting to Show Multiplication					
2. Understand meanings of operations and how they relate to one another							
A. Represent Operations							
represent and recognize multiplication using various models, including sets and arrays		Module: Operations with Numbers Unit: Multiplication Session: Repeated Addition and Arrays	Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers				
		Module: Operations with Numbers Unit: Multiplication Session: Skip Counting to Show Multiplication					
		Module: Operations with Numbers Unit: Multiplication Session: Finding Products Less than 100					

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
B. Describe effects of operations							
C. Apply properties of operations							
apply commutative and identity properties of multiplication to whole numbers		Module: Operations with Numbers Unit: Multiplication Session: Repeated Addition and Arrays	Module: Numbers and Number Sense Unit: Numbers as Factors Session: Finding Factors				
		Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties	Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers				
D. Apply operations on real and complex numbers							
3. Compute fluently and make reasonable estimates							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Describe or represent mental strategies							
represent a mental strategy used to compute a given multiplication problem (up to 2-digit by 2-digit multiple of)			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers				
B. Develop and demonstrate fluency							
demonstrate fluency with basic number relationships (12 X 12) of multiplication and division		Module: Operations with Numbers Unit: Multiplication Session: Repeated Addition and Arrays					
		Module: Operations with Numbers Unit: Multiplication Session: Skip Counting to Show Multiplication					
		Module: Operations with Numbers Unit: Multiplication Session: Finding Products Less than 100					

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
		Module: Operations with Numbers Unit: Division Session: Meaning of Division					
		Module: Operations with Numbers Unit: Division Session: Dividing by a 1-digit Number					
		Module: Operations with Numbers Unit: Division Session: Fractional Parts					
C. Compute problems							
apply and describe the strategy used to compute a given multiplication problem up to a 2-digit by 2-digit; division problem up to a 3-digit by 1-digit		Module: Operations with Numbers Unit: Multiplication Session: Finding Products Less than 100	Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
		Module: Operations with Numbers Unit: Division Session: Dividing by a 1-digit Number	Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division				
D. Estimate and justify solutions							
estimate and justify the results of multiplication of whole numbers			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers				
E. Use proportional reasoning							
Algebraic Relationships							
1. Understand patterns, relations and functions							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Recognize and extend patterns							
describe geometric and numeric patterns		Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties	Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data				
B. Create and analyze patterns							
analyze patterns using words, tables and graphs			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data				
C. Classify objects and representations							
D. Identify and compare functions							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
E. Describe the effects of parameter changes							
2. Represent and analyze mathematical situations and structures using algebraic symbols							
A. Represent mathematical situations							
represent a mathematical situation as an expression or number sentence		Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties					
B. Describe and use mathematical manipulation							
apply the commutative property of multiplication of whole numbers		Module: Operations with Numbers Unit: Multiplication Session: Finding Products Less than 100	Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
		Module: Operations with Numbers Unit: Multiplication Session: Repeated Addition and Arrays	Module: Numbers and Number Sense Unit: Numbers as Factors Session: Finding Factors				
C. Utilize equivalent forms							
D. Utilize systems							
3. Use mathematical models to represent and understand quantitative relationships							
A. Use mathematical models							
model problem situations, using representations such as graphs, tables or number sentences		Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties	Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Decimals Unit: Introduction Session: Ordering and Rounding				
4. Analyze change in various contexts							
A. Analyze change							
describe mathematical relationships in terms of constant rates of change		Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties					
Geometric and Spatial Relationships							
1. Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Describe and use geometric relationships							
identify and describe the attributes of 2- and 3-dimensional (prisms, cones, parallelism, perpendicularity)			Module: Geometry Unit: Measurement Session: Lines, Angles, and Circles				
			Module: Geometry Unit: Measurement Session: Rectangles and Squares				
			Module: Geometry Unit: Measurement Session: Triangles				
			Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids				
B. Apply geometric relationships							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
C. Compose and decompose shapes							
describe the results of subdividing, combining and transforming shapes			Module: Geometry Unit: Coordinate Geometry and Algebra Session: The Coordinate Plane				
			Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations				
2. Specify locations and describe spatial relationships using coordinate geometry and other representational systems							
A. Use coordinate systems							
describe movement using common language and geometric vocabulary (forward, back, left, right, north, south, east, west)			Module: Geometry Unit: Coordinate Geometry and Algebra Session: The Coordinate Plane				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations				
3. Apply transformations and use symmetry to analyze mathematical situations							
A. Use transformations on objects							
predict the results of sliding/translating, flipping/reflecting or turning around the center point of a polygon			Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations				
B. Use transformations on function							
C. Use symmetry							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
construct a figure with multiple lines of symmetry and identify the lines of symmetry			Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations				
4. Use visualization, spatial reasoning and geometric modeling to solve problems							
A. Recognize and draw three-dimensional representations							
given the picture of a prism, identify the shapes of the faces							
B. Draw and use visual models							
Measurement							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
1. Understand measurable attributes of objects and the units, systems and processes of measurement							
A. Determine unit of measurement							
identify and justify the unit of linear measure including perimeter and (customary metric)			Module: Geometry Unit: Measurement Session: Lines, Angles, and Circles				
			Module: Geometry Unit: Measurement Session: Rectangles and Squares				
			Module: Geometry Unit: Measurement Session: Triangles				
			Module: Geometry Unit: Coordinate Geometry and Algebra Session: The Coordinate Plane				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
B. Identify equivalent measures							
identify equivalent linear measures within a system of measurement							
C. Tell and use units of time							
tell time to the nearest minute		Module: Geometry and Measurement Unit: Measurement Session: Time					
D. Count and compute money							
determine change from $10.00 and add and subtract money values to $10.00		Module: Geometry and Measurement Unit: Measurement Session: Money					

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
2. Apply appropriate techniques, tools and formulas to determine measurements							
A. Use standard or non-standard measurement							
select and use benchmarks to estimate measurements (linear, capacity, weight)		Module: Geometry and Measurement Unit: Geometry Session: Volume					
B. Use angle measurement							
select and use benchmarks to estimate measurements of 0-, 45-, 90-degree angles			Module: Geometry Unit: Measurement Session: Lines, Angles, and Circles				
			Module: Geometry Unit: Measurement Session: Triangles				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
C. Apply geometric measurements							
determine the area of a polygon on a rectangular grid			Module: Geometry Unit: Coordinate Geometry and Algebra Session: The Coordinate Plane				
			Module: Geometry Unit: Measurement Session: Rectangles and Squares				
			Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids				
D. Analyze precision							
E. Use relationships within a measurement system							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
Data and Probability							
1. Formulate questions that can be addressed with data and collect, organize and display relevant data to answer them							
A. Formulate questions							
collect data using observations, surveys and experiments			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data				
B. Classify and organize data							
C. Represent and interpret data							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
create tables or graphs to represent categorical and numerical data (including line plots)			Module: Decimals Unit: Introduction Session: Ordering and Rounding				
			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data				
2. Select and use appropriate statistical methods to analyze data							
A. Describe and analyze data							
describe important features of the data set			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data				
B. Compare data representations							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
compare different representations of the same data and evaluate how well each representation shows important aspects of the data							
C. Represent data algebraically							
3. Develop and evaluate inferences and predictions that are based on data							
A. Develop and evaluate inferences							
given a set of data, propose and justify conclusions that are based on the data			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data				
B. Analyze basic statistical techniques							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
4. Understand and apply basic concepts of probability							
A. Apply basic concepts of probability							
B. Use and describe compound events							
Fifth Grade							
Number and Operations							
1. Understand numbers, ways of representing numbers, relationships among numbers and number systems							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Read, write and compare numbers							
read, write, compare and order unit fractions and decimals to thousandths			Module: Fractions Unit: Proper and Improper Fractions Session: Proper Fractions	Module: Fractions Unit: Essentials of Fractions Session: Recognizing a Fraction			
			Module: Fractions Unit: Proper and Improper Fractions Session: Improper Fractions	Module: Fractions Unit: Essentials of Fractions Session: Exploring Proper and Improper Fractions			
			Module: Fractions Unit: Proper and Improper Fractions Session: Equivalent Fractions	Module: Fractions Unit: Essentials of Fractions Session: Working with Mixed Numbers			
			Module: Fractions Unit: Proper and Improper Fractions Session: Ordering and Rounding Fractions				
			Module: Decimals Unit: Introduction Session: Tenths, Hundredths, and Thousandths				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Decimals Unit: Introduction Session: Ordering and Rounding				
B. Represent and use rational numbers							
recognize and generate equivalent forms of commonly used fractions, decimals and percents			Module: Fractions Unit: Proper and Improper Fractions Session: Improper Fractions	Module: Fractions Unit: Essentials of Fractions Session: Exploring Proper and Improper Fractions			
			Module: Fractions Unit: Proper and Improper Fractions Session: Equivalent Fractions	Module: Decimals Unit: Essentials of Decimals Session: Investigating Decimal Place Values			
			Module: Decimals Unit: Introduction Session: Tenths, Hundredths, and Thousandths	Module: Percents Unit: Essentials of Percents Session: Investigating the Meaning of Percent			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Decimals Unit: Introduction Session: Ordering and Rounding	Module: Percents Unit: Essentials of Percents Session: Expressing Percents as Proper Fractions			
			Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents	Module: Percents Unit: Essentials of Percents Session: Expressing Percents greater than 100% as Improper Fractions			
C. Compose and Decompose numbers							
recognize equivalent representations for the same number and generate them by decomposing and composing numbers			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Whole Numbers to One Million	Module: Fractions Unit: Equivalent Fractions Session: Identifying the Factors of a Number			
			Module: Fractions Unit: Proper and Improper Fractions Session: Equivalent Fractions	Module: Fractions Unit: Equivalent Fractions Session: Expressing Fractions in Lowest Terms			
			Module: Fractions Unit: Proper and Improper Fractions Session: Improper Fractions	Module: Fractions Unit: Equivalent Fractions Session: Writing and Comparing Equivalent Fractions			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Decimals Unit: Introduction Session: Tenths, Hundredths, and Thousandths	Module: Decimals Unit: Essentials of Decimals Session: Investigating Decimal Place Values			
			Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents	Module: Percents Unit: Essentials of Percents Session: Investigating the Meaning of Percent			
				Module: Percents Unit: Essentials of Percents Session: Expressing Percents as Proper Fractions			
				Module: Percents Unit: Essentials of Percents Session: Expressing Percents greater than 100% as Improper Fractions			
D. Classify and describe numeric relationships							
describe numbers according to their characteristics, including whole number factors, prime or composite, odd or even and square numbers			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Finding Factors	Module: Fractions Unit: Equivalent Fractions Session: Identifying the Factors of a Number	Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Investigating Squares & Square Roots		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Prime and Composite Numbers	Module: Fractions Unit: Equivalent Fractions Session: Expressing Fractions in Lowest Terms			
			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Identifying Common Factors	Module: Fractions Unit: Equivalent Fractions Session: Writing and Comparing Equivalent Fractions			
2. Understand meanings of operations and how they relate to one another							
A. Represent Operations							
represent and recognize division using various models, including quotative and partitive		Module: Operations with Numbers Unit: Division Session: Meaning of Division	Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division	Module: Decimals Unit: Dividing Decimals Session: Estimating and Finding Quotients			
		Module: Operations with Numbers Unit: Division Session: Dividing by a 1-digit Number	Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Divisors	Module: Decimals Unit: Dividing Decimals Session: Dividing by Powers of 10			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
		Module: Operations with Numbers Unit: Division Session: Fractional Parts	Module: Fractions Unit: Multiplication and Division Session: Quotients and Remainders				
			Module: Decimals Unit: Multiplication and Division Session: Dividing Decimals by Whole Numbers				
B. Describe effects of operations							
describe the effects of multiplying and dividing whole numbers as well as the relationship between the two operations		Module: Operations with Numbers Unit: Division Session: Meaning of Division	Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers	Module: Decimals Unit: Multiplying Decimals Session: Multiplying Decimals by Powers of 10			
		Module: Operations with Numbers Unit: Division Session: Dividing by a 1-digit Number	Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division	Module: Decimals Unit: Multiplying Decimals Session: Calculating Products			
		Module: Operations with Numbers Unit: Division Session: Fractional Parts	Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Divisors	Module: Decimals Unit: Dividing Decimals Session: Dividing Decimals by Whole Numbers			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Decimals Unit: Multiplication and Division Session: Multiplying Decimals	Module: Decimals Unit: Dividing Decimals Session: Estimating and Finding Quotients			
			Module: Decimals Unit: Multiplication and Division Session: Dividing Decimals by Whole Numbers	Module: Decimals Unit: Dividing Decimals Session: Dividing by Powers of 10			
C. Apply properties of operations							
apply distributive and associative properties to whole numbers		Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties	Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers				
D. Apply operations on real and complex numbers							
3. Compute fluently and make reasonable estimates							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Describe or represent mental strategies							
describe a mental strategy used to compute a given division problem, where the quotient is a multiple of 10 and the divisor is a 1-digit number (e.g., 350/7)			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division				
B. Develop and demonstrate fluency							
C. Compute problems							
apply and describe the strategy used to compute a given division problem up to a 3-digit by 2-digit		Module: Operations with Numbers Unit: Division Session: Dividing by a 1-digit Number	Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division				
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Divisors				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
D. Estimate and justify solutions							
estimate and justify the results of division of whole numbers			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division				
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Divisors				
E. Use proportional reasoning							
Algebraic Relationships							
1. Understand patterns, relations and functions							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Recognize and extend patterns							
make and describe generalizations about geometric and numeric patterns			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data				
B. Create and analyze patterns							
represent and analyze patterns using words, tables and graphs			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data		Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Line Graphs		
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Bar Graphs		
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Interpreting Pie Charts		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
C. Classify objects and representations							
D. Identify and compare functions							
E. Describe the effects of parameter changes							
2. Represent and analyze mathematical situations and structures using algebraic symbols							
A. Represent mathematical situations							
represent a mathematical situation as an expression or number sentence using a letter or symbol				Module: Fractions Unit: Dividing Fractions Session: Solving Missing Value Problems when Dividing Fractions	Module: Essentials of Algebra Unit: Algebra Fundamentals Session: Introducing Variables		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Fractions Unit: Adding Fractions Session: Solving Missing Value Problems when Adding Fractions	Module: Essentials of Algebra Unit: Simple Equations Session: Using Variables to Express Relationships		
				Module: Fractions Unit: Subtracting Fractions Session: Solving Missing Value Problems when Subtracting Fractions			
B. Describe and use mathematical manipulation							
apply the distributive and associative properties to whole numbers		Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties	Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers				
C. Utilize equivalent forms							
D. Utilize systems							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
3. Use mathematical models to represent and understand quantitative relationships							
A. Use mathematical models							
model problem situations and draw conclusions, using representations such as graphs, tables or number sentence		Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties	Module: Decimals Unit: Introduction Session: Ordering and Rounding				
			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data				
4. Analyze change in various contexts							
A. Analyze change							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
identify, model and describe situations with constant or varying rates of change							
Geometric and Spatial Relationships							
1. Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships							
A. Describe and use geometric relationships							
analyze 2- and 3-dimensional shapes by describing the attributes			Module: Geometry Unit: Measurement Session: Lines, Angles, and Circles				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Geometry Unit: Measurement Session: Rectangles and Squares				
			Module: Geometry Unit: Measurement Session: Triangles				
			Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids				
B. Apply geometric relationships							
C. Compose and decompose shapes							
predict and justify the results of subdividing, combining and transforming shapes			Module: Geometry Unit: Coordinate Geometry and Algebra Session: The Coordinate Plane				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations				
2. Specify locations and describe spatial relationships using coordinate geometry and other representational systems							
A. Use coordinate systems							
use coordinate systems to specify locations, describe paths and find the distance between points along horizontal and vertical lines			Module: Geometry Unit: Coordinate Geometry and Algebra Session: The Coordinate Plane				
			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data				
3. Apply transformations and use symmetry to analyze mathematical situations							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Use transformations on objects							
predict, draw and describe the results of sliding/translating, flipping/reflecting and turning/rotating around the center point of a polygon			Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations				
B. Use transformations on function							
C. Use symmetry							
identify polygons and designs with rotational symmetry			Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations				
4. Use visualization, spatial reasoning and geometric modeling to solve problems							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Recognize and draw three-dimensional representations							
given a net of a prism or cylinder, identify the 3-dimensional shape							
B. Draw and use visual models							
Measurement							
1. Understand measurable attributes of objects and the units, systems and processes of measurement							
A. Determine unit of measurement							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
identify and justify the unit of measure for area (customary and metric)			Module: Geometry Unit: Measurement Session: Rectangles and Squares				
			Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids				
			Module: Geometry Unit: Coordinate Geometry and Algebra Session: The Coordinate Plane				
B. Identify equivalent measures							
identify the equivalent weights and equivalent capacities within a system of measurement							
C. Tell and use units of time							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
solve problems involving elapsed time (hours)		Module: Geometry and Measurement Unit: Measurement Session: Time					
D. Count and compute money							
2. Apply appropriate techniques, tools and formulas to determine measurements							
A. Use standard or non-standard measurement							
B. Use angle measurement							
C. Apply geometric measurements							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
describe how to solve problems involving the area of polygons and non-polygonal regions imposed on a rectangular grid			Module: Geometry Unit: Coordinate Geometry and Algebra Session: The Coordinate Plane				
			Module: Geometry Unit: Measurement Session: Rectangles and Squares				
			Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids				
D. Analyze precision							
E. Use relationships within a measurement system							
convert from one unit to another within a system of measurement (linear)							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
Data and Probability							
1. Formulate questions that can be addressed with data and collect, organize and display relevant data to answer them							
A. Formulate questions							
evaluate data-collection methods							
B. Classify and organize data							
C. Represent and interpret data							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
describe methods to collect, organize and represent categorical and numerical data			Module: Decimals Unit: Introduction Session: Ordering and Rounding		Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Line Graphs		
			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data		Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Bar Graphs		
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Interpreting Pie Charts		
2. Select and use appropriate statistical methods to analyze data							
A. Describe and analyze data							
compare related data sets			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data		Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Line Graphs		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Bar Graphs		
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Interpreting Pie Charts		
B. Compare data representations							
compare different representations of the same data and evaluate how well each representation shows important aspects of the data			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data		Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Line Graphs		
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Bar Graphs		
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Interpreting Pie Charts		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
C. Represent data algebraically							
3. Develop and evaluate inferences and predictions that are based on data							
A. Develop and evaluate inferences							
given a set of data make and justify prediction(s)			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Looking at Chance				
B. Analyze basic statistical techniques							
4. Understand and apply basic concepts of probability							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Apply basic concepts of probability							
describe the degree of likelihood of events using such words as certain, equally likely and impossible			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Looking at Chance				
B. Use and describe compound events							
Sixth Grade							
Number and Operations							
1. Understand numbers, ways of representing numbers, relationships among numbers and number systems							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Read, write and compare numbers							
compare and order integers, positive rationals and percents, including finding their approximate location on a number line			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Whole Numbers to One Million	Module: Fractions Unit: Essentials of Fractions Session: Recognizing a Fraction			
			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Ordering and Rounding Whole Numbers	Module: Fractions Unit: Essentials of Fractions Session: Exploring Proper and Improper Fractions			
			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Negative Whole Numbers	Module: Fractions Unit: Essentials of Fractions Session: Working with Mixed Numbers			
			Module: Fractions Unit: Proper and Improper Fractions Session: Proper Fractions	Module: Decimals Unit: Essentials of Decimals Session: Investigating Decimal Place Values			
			Module: Fractions Unit: Proper and Improper Fractions Session: Improper Fractions	Module: Decimals Unit: Essentials of Decimals Session: Rounding Decimals			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Fractions Unit: Proper and Improper Fractions Session: Equivalent Fractions	Module: Decimals Unit: Essentials of Decimals Session: Exploring Repeating and Terminating Decimals			
			Module: Fractions Unit: Proper and Improper Fractions Session: Ordering and Rounding Fractions	Module: Percents Unit: Essentials of Percents Session: Investigating the Meaning of Percent			
			Module: Decimals Unit: Introduction Session: Tenths, Hundredths, and Thousandths	Module: Percents Unit: Essentials of Percents Session: Expressing Percents as Proper Fractions			
			Module: Decimals Unit: Introduction Session: Ordering and Rounding	Module: Percents Unit: Essentials of Percents Session: Expressing Percents greater than 100% as Improper Fractions			
			Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents				
B. Represent and use rational numbers							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
recognize and generate equivalent forms of fractions, decimals and percents			Module: Fractions Unit: Proper and Improper Fractions Session: Proper Fractions	Module: Fractions Unit: Essentials of Fractions Session: Exploring Proper and Improper Fractions			
			Module: Fractions Unit: Proper and Improper Fractions Session: Improper Fractions	Module: Fractions Unit: Essentials of Fractions Session: Working with Mixed Numbers			
			Module: Fractions Unit: Proper and Improper Fractions Session: Equivalent Fractions	Module: Fractions Unit: Equivalent Fractions Session: Identifying the Factors of a Number			
			Module: Decimals Unit: Introduction Session: Tenths, Hundredths, and Thousandths	Module: Fractions Unit: Equivalent Fractions Session: Expressing Fractions in Lowest Terms			
			Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents	Module: Fractions Unit: Equivalent Fractions Session: Writing and Comparing Equivalent Fractions			
				Module: Decimals Unit: Essentials of Decimals Session: Investigating Decimal Place Values			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Decimals Unit: Essentials of Decimals Session: Exploring Repeating and Terminating Decimals			
				Module: Percents Unit: Essentials of Percents Session: Investigating the Meaning of Percent			
				Module: Percents Unit: Essentials of Percents Session: Expressing Percents as Proper Fractions			
				Module: Percents Unit: Essentials of Percents Session: Expressing Percents greater than 100% as Improper Fractions			
C. Compose and Decompose numbers							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
recognize equivalent representations for the same number and generate them by decomposing and composing numbers including expanded notation			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Whole Numbers to One Million	Module: Fractions Unit: Essentials of Fractions Session: Exploring Proper and Improper Fractions			
			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Negative Whole Numbers	Module: Fractions Unit: Essentials of Fractions Session: Working with Mixed Numbers			
			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Finding Factors	Module: Fractions Unit: Equivalent Fractions Session: Identifying the Factors of a Number			
			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Prime and Composite Numbers	Module: Fractions Unit: Equivalent Fractions Session: Expressing Fractions in Lowest Terms			
			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Identifying Common Factors	Module: Fractions Unit: Equivalent Fractions Session: Writing and Comparing Equivalent Fractions			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Fractions Unit: Proper and Improper Fractions Session: Improper Fractions	Module: Decimals Unit: Essentials of Decimals Session: Investigating Decimal Place Values			
			Module: Fractions Unit: Proper and Improper Fractions Session: Equivalent Fractions	Module: Decimals Unit: Essentials of Decimals Session: Exploring Repeating and Terminating Decimals			
			Module: Decimals Unit: Introduction Session: Tenths, Hundredths, and Thousandths	Module: Percents Unit: Essentials of Percents Session: Investigating the Meaning of Percent			
			Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents	Module: Percents Unit: Essentials of Percents Session: Expressing Percents as Proper Fractions			
				Module: Percents Unit: Essentials of Percents Session: Expressing Percents greater than 100% as Improper Fractions			
D. Classify and describe numeric relationships							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
use factors and multiples to describe relationships between and among numbers, including whole number common factors and multiples			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Finding Factors	Module: Fractions Unit: Equivalent Fractions Session: Identifying the Factors of a Number			
			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Prime and Composite Numbers	Module: Fractions Unit: Equivalent Fractions Session: Expressing Fractions in Lowest Terms			
			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Identifying Common Factors	Module: Fractions Unit: Multiplying Fractions Session: Using the GCF in Finding Products			
				Module: Fractions Unit: Adding Fractions Session: Adding with Unlike Denominators			
				Module: Decimals Unit: Multiplying Decimals Session: Multiplying Decimals by Powers of 10			
2. Understand meanings of operations and how they relate to one another							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Represent Operations							
B. Describe effects of operations							
describe the effects of addition and subtraction on fractions and decimals			Module: Fractions Unit: Addition and Subtraction Session: Sums involving Like Denominators	Module: Fractions Unit: Adding Fractions Session: Adding with Like Denominators			
			Module: Fractions Unit: Addition and Subtraction Session: Differences involving Like Denominators	Module: Fractions Unit: Adding Fractions Session: Adding with Unlike Denominators			
			Module: Fractions Unit: Addition and Subtraction Session: Working with Unlike Denominators	Module: Fractions Unit: Adding Fractions Session: Solving Missing Value Problems when Adding Fractions			
			Module: Decimals Unit: Addition and Subtraction Session: Adding Decimals	Module: Fractions Unit: Subtracting Fractions Session: Subtracting with Like Denominators			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Decimals Unit: Addition and Subtraction Session: Subtracting Decimals	Module: Fractions Unit: Subtracting Fractions Session: Subtracting with Unlike Denominators			
				Module: Fractions Unit: Subtracting Fractions Session: Solving Missing Value Problems when Subtracting Fractions			
				Module: Decimals Unit: Adding and Subtracting Decimals Session: Using Place Value Grids			
				Module: Decimals Unit: Adding and Subtracting Decimals Session: Regrouping with Whole Numbers			
				Module: Decimals Unit: Adding and Subtracting Decimals Session: Regrouping to Hundredths			
C. Apply properties of operations							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
D. Apply operations on real and complex numbers							
3. Compute fluently and make reasonable estimates							
A. Describe or represent mental strategies							
B. Develop and demonstrate fluency							
C. Compute problems							
add and subtract positive rational numbers			Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums	Module: Fractions Unit: Adding Fractions Session: Adding with Like Denominators			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Differences Between Large Numbers	Module: Fractions Unit: Adding Fractions Session: Adding with Unlike Denominators			
			Module: Operations with Numbers Unit: The Integers Session: Integer Sums	Module: Fractions Unit: Adding Fractions Session: Solving Missing Value Problems when Adding Fractions			
			Module: Operations with Numbers Unit: The Integers Session: Differences Between Integers	Module: Fractions Unit: Subtracting Fractions Session: Subtracting with Like Denominators			
			Module: Fractions Unit: Addition and Subtraction Session: Sums involving Like Denominators	Module: Fractions Unit: Subtracting Fractions Session: Subtracting with Unlike Denominators			
			Module: Fractions Unit: Addition and Subtraction Session: Differences involving Like Denominators	Module: Fractions Unit: Subtracting Fractions Session: Solving Missing Value Problems when Subtracting Fractions			
			Module: Fractions Unit: Addition and Subtraction Session: Working with Unlike Denominators	Module: Decimals Unit: Adding and Subtracting Decimals Session: Using Place Value Grids			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Decimals Unit: Addition and Subtraction Session: Adding Decimals	Module: Decimals Unit: Adding and Subtracting Decimals Session: Regrouping with Whole Numbers			
			Module: Decimals Unit: Addition and Subtraction Session: Subtracting Decimals	Module: Decimals Unit: Adding and Subtracting Decimals Session: Regrouping to Hundredths			
D. Estimate and justify solutions							
estimate and justify the results of addition and subtraction of positive rational numbers			Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums	Module: Fractions Unit: Adding Fractions Session: Adding with Like Denominators			
			Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Differences Between Large Numbers				
			Module: Fractions Unit: Addition and Subtraction Session: Sums involving Like Denominators				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Fractions Unit: Addition and Subtraction Session: Differences involving Like Denominators				
			Module: Fractions Unit: Addition and Subtraction Session: Working with Unlike Denominators				
			Module: Decimals Unit: Addition and Subtraction Session: Adding Decimals				
			Module: Decimals Unit: Addition and Subtraction Session: Subtracting Decimals				
E. Use proportional reasoning							
solve problems using equivalent ratios					Module: Ratio & Proportion Unit: Ratio Session: Defining Ratio		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Ratio & Proportion Unit: Proportion Session: Defining a Proportion		
					Module: Ratio & Proportion Unit: Proportion Session: Solving for a Variable in a Proportion		
					Module: Ratio & Proportion Unit: Similar Polygons Session: Setting up & Solving Proportions in Similar Polygons		
Algebraic Relationships							
1. Understand patterns, relations and functions							
A. Recognize and extend patterns							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
B. Create and analyze patterns							
represent and describe patterns with tables, graphs, pictures, symbolic rules or words			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data	Module: Integers and Order of Operations Unit: Order of Operations Session: Simplifying Expressions	Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Line Graphs		
				Module: Integers and Order of Operations Unit: Order of Operations Session: Introducing the Distributive Property	Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Bar Graphs		
				Module: Integers and Order of Operations Unit: Order of Operations Session: Using Grouping Symbols	Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Interpreting Pie Charts		
C. Classify objects and representations							
compare various forms of representations to identify a pattern					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Line Graphs		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Bar Graphs		
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Interpreting Pie Charts		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Creating & Interpreting a Frequency Table		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Defining a Histogram		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Exploring Cumulative Frequency Graphs		
D. Identify and compare functions							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
identify functions as linear or nonlinear from a table or graph							
E. Describe the effects of parameter changes							
2. Represent and analyze mathematical situations and structures using algebraic symbols							
A. Represent mathematical situations							
use variables to represent unknown quantities in expressions				Module: Fractions Unit: Dividing Fractions Session: Solving Missing Value Problems when Dividing Fractions	Module: Essentials of Algebra Unit: Algebra Fundamentals Session: Introducing Variables	Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Translating Words into Expressions	

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Fractions Unit: Adding Fractions Session: Solving Missing Value Problems when Adding Fractions	Module: Essentials of Algebra Unit: Algebra Fundamentals Session: Identifying Components of Algebraic Expressions		
				Module: Fractions Unit: Subtracting Fractions Session: Solving Missing Value Problems when Subtracting Fractions	Module: Essentials of Algebra Unit: Simple Equations Session: Using Variables to Express Relationships		
B. Describe and use mathematical manipulation							
recognize equivalent forms for simple algebraic expressions (associative, distributive properties)					Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Combining Like Terms	-	
C. Utilize equivalent forms							
D. Utilize systems							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
3. Use mathematical models to represent and understand quantitative relationships							
A. Use mathematical models							
model and solve problems using multiple representations such as graphs, tables, expressions and equations			Module: Decimals Unit: Introduction Session: Ordering and Rounding	Module: Fractions Unit: Equivalent Fractions Session: Expressing Fractions in Lowest Terms	Module: Essentials of Algebra Unit: Algebra Fundamentals Session: Introducing Variables		
			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data	Module: Percents Unit: Essentials of Percents Session: Expressing Percents greater than 100% as Improper Fractions	Module: Essentials of Algebra Unit: Algebra Fundamentals Session: Identifying Components of Algebraic Expressions		
					Module: Essentials of Algebra Unit: Algebra Fundamentals Session: Replacing Variables in a Formula		
					Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Representing the Dimensions & Area of a Rectangle		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Combining Like Terms		
					Module: Essentials of Algebra Unit: Simple Equations Session: Using Variables to Express Relationships		
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Line Graphs		
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Bar Graphs		
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Interpreting Pie Charts		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
4. Analyze change in various contexts							
A. Analyze change							
compare situations with constant or varying rates of change							
Geometric and Spatial Relationships							
1. Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships							
A. Describe and use geometric relationships							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
Identify the properties of 1- 2- and 3-dimensional shapes using the appropriate geometric vocabulary			Module: Geometry Unit: Measurement Session: Lines, Angles, and Circles		Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Naming and Measuring Angles		
			Module: Geometry Unit: Measurement Session: Rectangles and Squares		Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Defining Complementary & Supplementary Angles		
			Module: Geometry Unit: Measurement Session: Triangles		Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Recognizing Congruent Angles		
			Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids		Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Sides		
			Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations		Module: Fundamentals of Geometry Unit: Triangles Session: Exploring the Area of a Triangle		
					Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Angles		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
B. Apply geometric relationships							
describe relationships between the corresponding angels and the length of corresponding sides of similar triangles (whole number scale factors)					Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Naming and Measuring Angles		
					Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Defining Complementary & Supplementary Angles		
					Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Recognizing Congruent Angles		
					Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Sides		
					Module: Fundamentals of Geometry Unit: Triangles Session: Exploring the Area of a Triangle		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Angles		
C. Compose and decompose shapes							
2. Specify locations and describe spatial relationships using coordinate geometry and other representational systems							
A. Use coordinate systems							
use coordinate geometry to construct geometric shapes			Module: Geometry Unit: Coordinate Geometry and Algebra Session: The Coordinate Plane				
3. Apply transformations and use symmetry to analyze mathematical situations							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Use transformations on objects							
describe the transformation from a given pre-image to its image using the terms reflection/flips, rotation/turn and translation/slide			Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations				
B. Use transformations on function							
C. Use symmetry							
create polygons and designs with rotational symmetry			Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations				
4. Use visualization, spatial reasoning and geometric modeling to solve problems							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Recognize and draw three-dimensional representations							
use spatial visualization to identify isometric representations of mat plans							
B. Draw and use visual models							
draw or use visual models to represent and solve problems			Module: Geometry Unit: Measurement Session: Rectangles and Squares		Module: Fundamentals of Geometry Unit: Triangles Session: Exploring the Area of a Triangle		
			Module: Geometry Unit: Measurement Session: Triangles		Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume of a Right Triangular Prism		
			Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids		Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Surface Area of a Right Triangular Prism		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume & Surface Area of a Right Cylinder		
Measurement							
1. Understand measurable attributes of objects and the units, systems and processes of measurement							
A. Determine unit of measurement							
identify and justify an angle as acute, obtuse, straight or right			Module: Geometry Unit: Measurement Session: Lines, Angles, and Circles		Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Naming and Measuring Angles		
					Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Defining Complementary & Supplementary Angles		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Sides		
					Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Angles		
B. Identify equivalent measures							
C. Tell and use units of time							
solve problems involving elapsed time (hours and minutes)		Module: Geometry and Measurement Unit: Measurement Session: Time					
D. Count and compute money							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
2. Apply appropriate techniques, tools and formulas to determine measurements							
A. Use standard or non-standard measurement							
estimate a measurement using either standard or non-standard unit of measurement							
B. Use angle measurement							
select and use benchmarks to estimate measurements of 0-, 45-, 90-, 180-, 360- degree angles			Module: Geometry Unit: Measurement Session: Lines, Angles, and Circles				
			Module: Geometry Unit: Measurement Session: Triangles				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
C. Apply geometric measurements							
describe how to solve problems involving the area or perimeter of polygons			Module: Geometry Unit: Measurement Session: Rectangles and Squares	Module: Fractions Unit: Subtracting Fractions Session: Subtracting with Like Denominators	Module: Fundamentals of Geometry Unit: Triangles Session: Exploring the Area of a Triangle		
			Module: Geometry Unit: Measurement Session: Triangles	Module: Fractions Unit: Subtracting Fractions Session: Subtracting with Unlike Denominators	Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Surface Area of a Right Triangular Prism		
			Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids				
			Module: Geometry Unit: Coordinate Geometry and Algebra Session: The Coordinate Plane				
D. Analyze precision							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
E. Use relationships within a measurement system							
convert from one unit to another within a system of measurement (mass and weight)							
Data and Probability							
1. Formulate questions that can be addressed with data and collect, organize and display relevant data to answer them							
A. Formulate questions							
formulate questions, design studies and collect data about a characteristic							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
B. Classify and organize data							
C. Represent and interpret data							
interpret circle graphs; create and interpret stem-and-leaf plots				Module: Fractions Unit: Equivalent Fractions Session: Expressing Fractions in Lowest Terms	Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Interpreting Pie Charts		Module: Describing Data Unit: Graphical Displays Session: Stem-&-Leaf Plots & Box Plots
				Module: Percents Unit: Essentials of Percents Session: Expressing Percents greater than 100% as Improper Fractions	Module: Ratio & Proportion Unit: Ratio Session: Forming Ratios between Unlike Quantities		
2. Select and use appropriate statistical methods to analyze data							
A. Describe and analyze data							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
find the range and measures of center, including median, mode and mean			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data		Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Bar Graphs		
					Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Defining the Mean & Median		
					Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Defining the Mode		
					Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Calculating the Mean, Median, & Mode		
B. Compare data representations							
compare different representations of the same data and evaluate how well each representation shows important aspects of the data			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
C. Represent data algebraically							
3. Develop and evaluate inferences and predictions that are based on data							
A. Develop and evaluate inferences							
use observations about differences between 2 samples to make conjectures about the populations from which the samples were taken							Module: Describing Data Unit: Graphical Displays Session: Stem-&-Leaf Plots & Box Plots
B. Analyze basic statistical techniques							
4. Understand and apply basic concepts of probability							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Apply basic concepts of probability							
use a model (diagrams, list, sample space, or area model) to illustrate the possible outcomes of an event using such words as certain, equally likely and impossible			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Looking at Chance		Module: Fundamentals of Probability Unit: Simple Probability Session: Defining & Expressing Probability		
					Module: Fundamentals of Probability Unit: Simple Probability Session: Calculating Probabilities on a Color Wheel		
					Module: Fundamentals of Probability Unit: Simple Probability Session: Determining Probabilities of Complementary Events		
B. Use and describe compound events							
Grade Seven							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
Number and Operation							
1. Understand numbers, ways of representing numbers, relationships among numbers and number systems							
A. Read, write and compare numbers							
compare and order integers, positive rationals and percents, including finding their approximate location on a number line			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Whole Numbers to One Million	Module: Fractions Unit: Essentials of Fractions Session: Recognizing a Fraction			
			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Ordering and Rounding Whole Numbers	Module: Fractions Unit: Essentials of Fractions Session: Exploring Proper and Improper Fractions			
			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Negative Whole Numbers	Module: Fractions Unit: Essentials of Fractions Session: Working with Mixed Numbers			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Fractions Unit: Proper and Improper Fractions Session: Proper Fractions	Module: Decimals Unit: Essentials of Decimals Session: Investigating Decimal Place Values			
			Module: Fractions Unit: Proper and Improper Fractions Session: Improper Fractions	Module: Decimals Unit: Essentials of Decimals Session: Rounding Decimals			
			Module: Fractions Unit: Proper and Improper Fractions Session: Equivalent Fractions	Module: Decimals Unit: Essentials of Decimals Session: Exploring Repeating and Terminating Decimals			
			Module: Fractions Unit: Proper and Improper Fractions Session: Ordering and Rounding Fractions	Module: Percents Unit: Essentials of Percents Session: Investigating the Meaning of Percent			
			Module: Decimals Unit: Introduction Session: Tenths, Hundredths, and Thousandths	Module: Percents Unit: Essentials of Percents Session: Expressing Percents as Proper Fractions			
			Module: Decimals Unit: Introduction Session: Ordering and Rounding	Module: Percents Unit: Essentials of Percents Session: Expressing Percents greater than 100% as Improper Fractions			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents				
			Module: Operations with Numbers Unit: The Integers Session: Integer Sums				
			Module: Operations with Numbers Unit: The Integers Session: Differences Between Integers				
B. Represent and use rational numbers							
use fractions, decimals and percents to solve problems			Module: Fractions Unit: Addition and Subtraction Session: Sums involving Like Denominators	Module: Fractions Unit: Multiplying Fractions Session: Finding Products of Fractions, Whole Numbers, and Mixed Numbers			
			Module: Fractions Unit: Addition and Subtraction Session: Differences involving Like Denominators	Module: Fractions Unit: Multiplying Fractions Session: Using the GCF in Finding Products			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Fractions Unit: Addition and Subtraction Session: Working with Unlike Denominators	Module: Fractions Unit: Multiplying Fractions Session: Representing Multiplication			
			Module: Fractions Unit: Multiplication and Division Session: Finding Products	Module: Fractions Unit: Dividing Fractions Session: Estimating Quotients of Fractions			
			Module: Fractions Unit: Multiplication and Division Session: Quotients and Remainders	Module: Fractions Unit: Dividing Fractions Session: Using Multiplicative Inverses			
				Module: Fractions Unit: Dividing Fractions Session: Solving Missing Value Problems when Dividing Fractions			
				Module: Fractions Unit: Adding Fractions Session: Adding with Like Denominators			
				Module: Fractions Unit: Adding Fractions Session: Adding with Unlike Denominators			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Fractions Unit: Adding Fractions Session: Solving Missing Value Problems when Adding Fractions			
				Module: Fractions Unit: Subtracting Fractions Session: Subtracting with Like Denominators			
				Module: Fractions Unit: Subtracting Fractions Session: Subtracting with Unlike Denominators			
				Module: Fractions Unit: Subtracting Fractions Session: Solving Missing Value Problems when Subtracting Fractions			
				Module: Decimals Unit: Adding and Subtracting Decimals Session: Using Place Value Grids			
				Module: Decimals Unit: Adding and Subtracting Decimals Session: Regrouping with Whole Numbers			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Decimals Unit: Adding and Subtracting Decimals Session: Regrouping to Hundredths			
				Module: Decimals Unit: Multiplying Decimals Session: Multiplying Decimals by Powers of 10			
				Module: Decimals Unit: Multiplying Decimals Session: Calculating Products			
				Module: Decimals Unit: Multiplying Decimals Session: Finding the Volume of a Prism			
				Module: Decimals Unit: Dividing Decimals Session: Dividing Decimals by Whole Numbers			
				Module: Decimals Unit: Dividing Decimals Session: Estimating and Finding Quotients			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Decimals Unit: Dividing Decimals Session: Dividing by Powers of 10			
				Module: Percents Unit: Finding Percents of Quantities Session: Finding Percents of a Whole			
				Module: Percents Unit: Finding Percents of Quantities Session: Expressing Ratios as Percents			
				Module: Percents Unit: Finding Percents of Quantities Session: Calculating the Whole from a Part and a Percent			
				Module: Percents Unit: Increasing and Decreasing Percents Session: Calculating Percent Increases			
C. Compose and Decompose numbers				Module: Percents Unit: Increasing and Decreasing Percents Session: Calculating Percent Decreases			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
recognize equivalent representations for the same number and generate them by decomposing and composing numbers including exponential notation			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Whole Numbers to One Million	Module: Fractions Unit: Essentials of Fractions Session: Exploring Proper and Improper Fractions			Module: Powers & Polynomials Unit: Polynomial Arithmetic Session: Working with Powers
			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Negative Whole Numbers	Module: Fractions Unit: Essentials of Fractions Session: Working with Mixed Numbers			
			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Finding Factors	Module: Fractions Unit: Equivalent Fractions Session: Identifying the Factors of a Number			
			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Prime and Composite Numbers	Module: Fractions Unit: Equivalent Fractions Session: Expressing Fractions in Lowest Terms			
			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Identifying Common Factors	Module: Fractions Unit: Equivalent Fractions Session: Writing and Comparing Equivalent Fractions			
			Module: Fractions Unit: Proper and Improper Fractions Session: Improper Fractions	Module: Decimals Unit: Essentials of Decimals Session: Investigating Decimal Place Values			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Fractions Unit: Proper and Improper Fractions Session: Equivalent Fractions	Module: Decimals Unit: Essentials of Decimals Session: Exploring Repeating and Terminating Decimals			
			Module: Decimals Unit: Introduction Session: Tenths, Hundredths, and Thousandths	Module: Percents Unit: Essentials of Percents Session: Investigating the Meaning of Percent			
			Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents	Module: Percents Unit: Essentials of Percents Session: Expressing Percents as Proper Fractions			
				Module: Percents Unit: Essentials of Percents Session: Expressing Percents greater than 100% as Improper Fractions			
				Module: Integers and Order of Operations Unit: Order of Operations Session: Simplifying Expressions			
D. Classify and describe numeric relationships							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
use whole number factors and multiples to describe relationships between and among numbers			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Finding Factors				
			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Prime and Composite Numbers				
			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Identifying Common Factors				
2. Understand meanings of operations and how they relate to one another							
A. Represent Operations							
B. Describe effects of operations							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
describe the effects of multiplication and division on fractions and addition and subtraction on integers			Module: Operations with Numbers Unit: The Integers Session: Integer Sums	Module: Fractions Unit: Multiplying Fractions Session: Finding Products of Fractions, Whole Numbers, and Mixed Numbers			
			Module: Operations with Numbers Unit: The Integers Session: Differences Between Integers	Module: Fractions Unit: Multiplying Fractions Session: Using the GCF in Finding Products			
			Module: Fractions Unit: Multiplication and Division Session: Finding Products	Module: Fractions Unit: Multiplying Fractions Session: Representing Multiplication			
			Module: Fractions Unit: Multiplication and Division Session: Quotients and Remainders	Module: Fractions Unit: Dividing Fractions Session: Estimating Quotients of Fractions			
				Module: Fractions Unit: Dividing Fractions Session: Using Multiplicative Inverses			
				Module: Fractions Unit: Dividing Fractions Session: Solving Missing Value Problems when Dividing Fractions			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
C. Apply properties of operations							
apply properties of operations (including order of operations) to positive rational numbers			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers	Module: Integers and Order of Operations Unit: Order of Operations Session: Simplifying Expressions	Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Combining Like Terms		
				Module: Integers and Order of Operations Unit: Order of Operations Session: Introducing the Distributive Property	Module: Essentials of Algebra Unit: Solving Literal Equations Session: Substituting Values & Solving an Equation		
				Module: Integers and Order of Operations Unit: Order of Operations Session: Using Grouping Symbols			
				Module: Fractions Unit: Multiplying Fractions Session: Representing Multiplication			
D. Apply operations on real and complex numbers							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
approximate the value of square roots to the nearest whole number					Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Investigating Squares & Square Roots		
					Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Defining Irrational Numbers		
3. Compute fluently and make reasonable estimates							
A. Describe or represent mental strategies							
B. Develop and demonstrate fluency							
C. Compute problems							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
multiply and divide positive rational numbers			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers	Module: Fractions Unit: Multiplying Fractions Session: Finding Products of Fractions, Whole Numbers, and Mixed Numbers			
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division	Module: Fractions Unit: Multiplying Fractions Session: Using the GCF in Finding Products			
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Divisors	Module: Fractions Unit: Multiplying Fractions Session: Representing Multiplication			
			Module: Fractions Unit: Multiplication and Division Session: Finding Products	Module: Fractions Unit: Dividing Fractions Session: Estimating Quotients of Fractions			
			Module: Fractions Unit: Multiplication and Division Session: Quotients and Remainders	Module: Fractions Unit: Dividing Fractions Session: Using Multiplicative Inverses			
			Module: Decimals Unit: Multiplication and Division Session: Multiplying Decimals	Module: Fractions Unit: Dividing Fractions Session: Solving Missing Value Problems when Dividing Fractions			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Decimals Unit: Multiplication and Division Session: Dividing Decimals by Whole Numbers	Module: Decimals Unit: Multiplying Decimals Session: Multiplying Decimals by Powers of 10			
				Module: Decimals Unit: Multiplying Decimals Session: Calculating Products			
				Module: Decimals Unit: Multiplying Decimals Session: Finding the Volume of a Prism			
				Module: Decimals Unit: Dividing Decimals Session: Dividing Decimals by Whole Numbers			
				Module: Decimals Unit: Dividing Decimals Session: Estimating and Finding Quotients			
				Module: Decimals Unit: Dividing Decimals Session: Dividing by Powers of 10			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
D. Estimate and justify solutions							
estimate and justify the results of multiplication and division of positive rational numbers			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers	Module: Fractions Unit: Dividing Fractions Session: Estimating Quotients of Fractions			
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division	Module: Fractions Unit: Dividing Fractions Session: Using Multiplicative Inverses			
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Divisors				
			Module: Fractions Unit: Multiplication and Division Session: Finding Products				
			Module: Fractions Unit: Multiplication and Division Session: Quotients and Remainders				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Decimals Unit: Multiplication and Division Session: Multiplying Decimals				
			Module: Decimals Unit: Multiplication and Division Session: Dividing Decimals by Whole Numbers				
E. Use proportional reasoning							
solve problems involving proportions, such as scaling and finding equivalent ratios					Module: Ratio & Proportion Unit: Proportion Session: Defining a Proportion		
					Module: Ratio & Proportion Unit: Proportion Session: Solving for a Variable in a Proportion		
					Module: Ratio & Proportion Unit: Proportion Session: Applying the Means/Extremes Property		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Ratio & Proportion Unit: Direct & Inverse Variation Session: Exploring & Solving Direct Variation Problems		
					Module: Ratio & Proportion Unit: Similar Polygons Session: Setting up & Solving Proportions in Similar Polygons		
Algebraic Relationships							
1. Understand patterns, relations and functions							
A. Recognize and extend patterns							
B. Create and analyze patterns							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
analyze patterns represented graphically or numerically using words or symbolic rules, including recursive notation					Module: Essentials of Algebra Unit: Simple Equations Session: Using Variables to Express Relationships	Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Graphing Ordered Pairs	
					Module: Essentials of Algebra Unit: Simple Equations Session: Simplifying Algebraic Expressions	Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Defining Slope	
					Module: Essentials of Algebra Unit: Simple Equations Session: Solving Simple Equations	Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Finding x- and y-Intercepts	
					Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Writing Equations	Module: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Slope-Intercept Equation of a Line	
					Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Simplifying Both Sides of an Equation	Module: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Point-Slope Equation of a Line	
					Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Checking the Solution to an Equation	Module: Linear Functions and Equations Unit: Introduction to Functions Session: Relations and Functions	

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Essentials of Algebra Unit: Solving Literal Equations Session: Identifying the Variables in a Given Formula	Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Finding the Point of Intersection	
					Module: Essentials of Algebra Unit: Solving Literal Equations Session: Rewriting a Formula in Terms of a Different Variable		
					Module: Essentials of Algebra Unit: Solving Literal Equations Session: Substituting Values & Solving an Equation		
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Line Graphs		
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Bar Graphs		
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Interpreting Pie Charts		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Defining the Mean & Median		
					Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Defining the Mode		
					Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Calculating the Mean, Median, & Mode		
C. Classify objects and representations							
compare and contrast various forms of representations of patterns							
D. Identify and compare functions							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
identify functions as linear or nonlinear from tables, graphs or equations							
E. Describe the effects of parameter changes							
2. Represent and analyze mathematical situations and structures using algebraic symbols							
A. Represent mathematical situations							
use variables to represent unknown quantities in equations and inequalities					Module: Essentials of Algebra Unit: Algebra Fundamentals Session: Introducing Variables	Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Translating Words into Expressions	
					Module: Essentials of Algebra Unit: Algebra Fundamentals Session: Identifying Components of Algebraic Expressions		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Essentials of Algebra Unit: Algebra Fundamentals Session: Replacing Variables in a Formula		
					Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Representing the Dimensions & Area of a Rectangle		
					Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Combining Like Terms		
					Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Evaluating Expressions Using Substitution		
					Module: Essentials of Algebra Unit: Simple Equations Session: Using Variables to Express Relationships		
					Module: Essentials of Algebra Unit: Simple Equations Session: Simplifying Algebraic Expressions		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Essentials of Algebra Unit: Simple Equations Session: Solving Simple Equations		
					Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Writing Equations		
					Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Simplifying Both Sides of an Equation		
					Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Checking the Solution to an Equation		
B. Describe and use mathematical manipulation							
generate equivalent forms for simple algebraic expressions					Module: Essentials of Algebra Unit: Algebra Fundamentals Session: Replacing Variables in a Formula	Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Translating Words into Expressions	

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Combining Like Terms	Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Applying Properties of Real Numbers	
					Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Evaluating Expressions Using Substitution	Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Evaluating and Simplifying Expressions	
					Module: Essentials of Algebra Unit: Simple Equations Session: Simplifying Algebraic Expressions	Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Applying Inverse Operations	
					Module: Essentials of Algebra Unit: Simple Equations Session: Solving Simple Equations	Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Transforming Equations using Multiple Operations	
					Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Simplifying Both Sides of an Equation	Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Solving Absolute Value Equations	
					Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Checking the Solution to an Equation		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Essentials of Algebra Unit: Solving Literal Equations Session: Identifying the Variables in a Given Formula		
					Module: Essentials of Algebra Unit: Solving Literal Equations Session: Rewriting a Formula in Terms of a Different Variable		
					Module: Essentials of Algebra Unit: Solving Literal Equations Session: Substituting Values & Solving an Equation		
C. Utilize equivalent forms							
D. Utilize systems							
3. Use mathematical models to represent and understand quantitative relationships							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Use mathematical models							
model and solve problems, using multiple representations such as graphs, tables, expressions, equations or inequalities					Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Representing the Dimensions & Area of a Rectangle	Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Applying Inverse Operations	
					Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Combining Like Terms	Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Transforming Equations using Multiple Operations	
					Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Evaluating Expressions Using Substitution	Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Solving Absolute Value Equations	
					Module: Essentials of Algebra Unit: Simple Equations Session: Using Variables to Express Relationships	Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Finding the Point of Intersection	
					Module: Essentials of Algebra Unit: Simple Equations Session: Simplifying Algebraic Expressions	Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Graphing Parallel & Perpendicular Lines	

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Essentials of Algebra Unit: Simple Equations Session: Solving Simple Equations	Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Substitution to Eliminate a Variable	
					Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Writing Equations	Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Addition or Subtraction to Eliminate a Variable	
					Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Simplifying Both Sides of an Equation		
					Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Checking the Solution to an Equation		
					Module: Essentials of Algebra Unit: Solving Literal Equations Session: Identifying the Variables in a Given Formula		
					Module: Essentials of Algebra Unit: Solving Literal Equations Session: Rewriting a Formula in Terms of a Different Variable		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Essentials of Algebra Unit: Solving Literal Equations Session: Substituting Values & Solving an Equation		
4. Analyze change in various contexts							
A. Analyze change							
compare situations with constant or varying rates of change						Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Defining Slope	
						Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Finding x- and y-Intercepts	
						Module: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Slope-Intercept Equation of a Line	

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
						Module: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Point-Slope Equation of a Line	
						Module: Linear Functions and Equations Unit: Introduction to Functions Session: Relations and Functions	
						Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Finding the Point of Intersection	
Geometric and Spatial Relationships							
1. Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships							
A. Describe and use geometric relationships							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
classify 2- and 3-dimensional shapes based on their properties			Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations		Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Naming and Measuring Angles		
					Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Defining Complementary & Supplementary Angles		
					Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Recognizing Congruent Angles		
					Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Sides		
					Module: Fundamentals of Geometry Unit: Triangles Session: Exploring the Area of a Triangle		
					Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Angles		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume of a Right Triangular Prism		
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Surface Area of a Right Triangular Prism		
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume & Surface Area of a Right Cylinder		
B. Apply geometric relationships							
describe relationships between corresponding sides, corresponding angles and corresponding perimeters of similar polygons					Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Defining Complementary & Supplementary Angles		
					Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Recognizing Congruent Angles		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Sides		
					Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Angles		
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume & Surface Area of a Right Cylinder		
					Module: Ratio & Proportion Unit: Similar Polygons Session: Identifying Equivalent Ratios		
					Module: Ratio & Proportion Unit: Similar Polygons Session: Setting up & Solving Proportions in Similar Polygons		
C. Compose and decompose shapes							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
2. Specify locations and describe spatial relationships using coordinate geometry and other representational systems							
A. Use coordinate systems							
given ordered pairs, identify geometric shapes in the coordinate plane using their properties			Module: Geometry Unit: Coordinate Geometry and Algebra Session: The Coordinate Plane			Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Graphing Ordered Pairs	
3. Apply transformations and use symmetry to analyze mathematical situations							
A. Use transformations on objects							
reposition shapes under informal transformations such as reflection (flip), rotation (turn) and translation (slide)			Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
B. Use transformations on function							
describe the relationship between the scale factor and the perimeter of the image using a dilation (contractions-magnifications) (stretching/shrinking)					Module: Ratio & Proportion Unit: Similar Polygons Session: Defining Similarity		
					Module: Ratio & Proportion Unit: Similar Polygons Session: Identifying Equivalent Ratios		
					Module: Ratio & Proportion Unit: Similar Polygons Session: Setting up & Solving Proportions in Similar Polygons		
C. Use symmetry							
determine all lines of symmetry of polygons			Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
4. Use visualization, spatial reasoning and geometric modeling to solve problems							
A. Recognize and draw three-dimensional representations							
use spatial visualizations to identify various 2-dimensional views of isometric drawings							
B. Draw and use visual models							
draw or use visual models to represent and solve problems			Module: Geometry Unit: Measurement Session: Rectangles and Squares		Module: Fundamentals of Geometry Unit: Triangles Session: Exploring the Area of a Triangle		
			Module: Geometry Unit: Measurement Session: Triangles		Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume of a Right Triangular Prism		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids		Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Surface Area of a Right Triangular Prism		
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume & Surface Area of a Right Cylinder		
Measurement							
1. Understand measurable attributes of objects and the units, systems and processes of measurement							
A. Determine unit of measurement							
identify and justify the unit of measure for volume (customary and metric)				Module: Decimals Unit: Multiplying Decimals Session: Finding the Volume of a Prism	Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume of a Right Triangular Prism		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Surface Area of a Right Triangular Prism		
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume & Surface Area of a Right Cylinder		
B. Identify equivalent measures							
identify the equivalent area measures within a system of measurement (e.g., sq ft. to sq in.)							
C. Tell and use units of time							
solve problems involving addition and subtraction of time (hours, minutes and seconds)							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
D. Count and compute money							
2. Apply appropriate techniques, tools and formulas to determine measurements							
A. Use standard or non-standard measurement							
B. Use angle measurement							
use tools to measure angles to the nearest degree			Module: Geometry Unit: Measurement Session: Lines, Angles, and Circles		Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Naming and Measuring Angles		
C. Apply geometric measurements							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
describe how to solve problems involving circumference and/or area of a circle				Module: Decimals Unit: Essentials of Decimals Session: Rounding Decimals	Module: Essentials of Algebra Unit: Solving Literal Equations Session: Identifying the Variables in a Given Formula		
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume & Surface Area of a Right Cylinder		
D. Analyze precision							
analyze precision and accuracy in measurement situations							
E. Use relationships within a measurement system							
convert from one unit to another within a system of measurement (capacity)							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
Data and Probability							
1. Formulate questions that can be addressed with data and collect, organize and display relevant data to answer them							
A. Formulate questions							
formulate questions, design studies and collect data about a characteristic					Module: Fundamentals of Statistics Unit: Exploring Line Graphs Session: Exploring Line Graphs		Module: Describing Data Unit: Graphical Displays Session: Stem-&-Leaf Plots & Box Plots
					Module: Fundamentals of Statistics Unit: Exploring Line Graphs Session: Exploring Bar Graphs		Module: Describing Data Unit: Graphical Displays Session: Scatter Plots & Linear Best-Fit Graphs
					Module: Fundamentals of Statistics Unit: Exploring Line Graphs Session: Interpreting Pie Charts		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Creating and Interpreting a Frequency Table		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Defining a Histogram		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Exploring Cumulative Frequency Graphs		
B. Classify and organize data							
C. Represent and interpret data							
select, create and use appropriate graphical representation of data, including circle graphs, histograms and box plots (box and whiskers)					Module: Fundamentals of Statistics Unit: Exploring Line Graphs Session: Exploring Line Graphs		Module: Describing Data Unit: Graphical Displays Session: Stem-&-Leaf Plots & Box Plots

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Fundamentals of Statistics Unit: Exploring Line Graphs Session: Exploring Bar Graphs		Module: Describing Data Unit: Graphical Displays Session: Scatter Plots & Linear Best-Fit Graphs
					Module: Fundamentals of Statistics Unit: Exploring Line Graphs Session: Interpreting Pie Charts		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Creating and Interpreting a Frequency Table		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Defining a Histogram		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Exploring Cumulative Frequency Graphs		
2. Select and use appropriate statistical methods to analyze data							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Describe and analyze data							
find, use and interpret measures of center and spread, including ranges and interquartile range					Module: Fundamentals of Statistics Unit: The Mean, Median, and Mode Session: Defining the Mean and Median		Module: Describing Data Unit: Graphical Displays Session: Stem-&-Leaf Plots & Box Plots
					Module: Fundamentals of Statistics Unit: The Mean, Median, and Mode Session: Defining the Mode		
					Module: Fundamentals of Statistics Unit: The Mean, Median, and Mode Session: Calculating the Mean, Median, and Mode		
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Bar Graphs		
B. Compare data representations							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
compare different representations of the same data and evaluate how well each representation shows important aspects of the data					Module: Fundamentals of Statistics Unit: Exploring Line Graphs Session: Exploring Line Graphs		Module: Describing Data Unit: Graphical Displays Session: Stem-and-Leaf Plots and Box Plots
					Module: Fundamentals of Statistics Unit: Exploring Line Graphs Session: Exploring Bar Graphs		Module: Describing Data Unit: Graphical Displays Session: Scatter Plots and Linear Best-Fit Graphs
					Module: Fundamentals of Statistics Unit: Exploring Line Graphs Session: Interpreting Pie Charts		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Creating and Interpreting a Frequency Table		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Defining a Histogram		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Exploring Cumulative Frequency Graphs		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
C. Represent data algebraically							
3. Develop and evaluate inferences and predictions that are based on data							
A. Develop and evaluate inferences							
use observations about differences between samples to make conjectures about the populations from which the samples were taken							Module: Describing Data Unit: Graphical Displays Session: Scatter Plots & Linear Best-Fit Graphs
B. Analyze basic statistical techniques							
4. Understand and apply basic concepts of probability							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Apply basic concepts of probability							
use models to compute the probability of an event			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Looking at Chance		Module: Fundamentals of Probability Unit: Simple Probability Session: Defining & Expressing Probability		
					Module: Fundamentals of Probability Unit: Simple Probability Session: Calculating Probabilities on a Color Wheel		
					Module: Fundamentals of Probability Unit: Simple Probability Session: Determining Probabilities of Complementary Events		
B. Use and describe compound events							
Eighth Grade							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
Number and Operation							
1. Understand numbers, ways of representing numbers, relationships among numbers and number systems							
A. Read, write and compare numbers							
compare and order rationals and percents, including finding their approximate locations on a number line			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Whole Numbers to One Million	Module: Fractions Unit: Essentials of Fractions Session: Recognizing a Fraction			
			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Ordering and Rounding Whole Numbers	Module: Fractions Unit: Essentials of Fractions Session: Exploring Proper and Improper Fractions			
			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Negative Whole Numbers	Module: Fractions Unit: Essentials of Fractions Session: Working with Mixed Numbers			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Fractions Unit: Proper and Improper Fractions Session: Proper Fractions	Module: Decimals Unit: Essentials of Decimals Session: Investigating Decimal Place Values			
			Module: Fractions Unit: Proper and Improper Fractions Session: Improper Fractions	Module: Decimals Unit: Essentials of Decimals Session: Rounding Decimals			
			Module: Fractions Unit: Proper and Improper Fractions Session: Equivalent Fractions	Module: Decimals Unit: Essentials of Decimals Session: Exploring Repeating and Terminating Decimals			
			Module: Fractions Unit: Proper and Improper Fractions Session: Ordering and Rounding Fractions	Module: Percents Unit: Essentials of Percents Session: Investigating the Meaning of Percent			
			Module: Decimals Unit: Introduction Session: Tenths, Hundredths, and Thousandths	Module: Percents Unit: Essentials of Percents Session: Expressing Percents as Proper Fractions			
			Module: Decimals Unit: Introduction Session: Ordering and Rounding	Module: Percents Unit: Essentials of Percents Session: Expressing Percents greater than 100% as Improper Fractions			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents				
B. Represent and use rational numbers							
use fractions, decimals and percents to solve problems			Module: Fractions Unit: Addition and Subtraction Session: Sums involving Like Denominators	Module: Fractions Unit: Multiplying Fractions Session: Finding Products of Fractions, Whole Numbers, and Mixed Numbers			
			Module: Fractions Unit: Addition and Subtraction Session: Differences involving Like Denominators	Module: Fractions Unit: Multiplying Fractions Session: Using the GCF in Finding Products			
			Module: Fractions Unit: Addition and Subtraction Session: Working with Unlike Denominators	Module: Fractions Unit: Multiplying Fractions Session: Representing Multiplication			
			Module: Fractions Unit: Multiplication and Division Session: Finding Products	Module: Fractions Unit: Dividing Fractions Session: Estimating Quotients of Fractions			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Fractions Unit: Multiplication and Division Session: Quotients and Remainders	Module: Fractions Unit: Dividing Fractions Session: Using Multiplicative Inverses			
				Module: Fractions Unit: Dividing Fractions Session: Solving Missing Value Problems when Dividing Fractions			
				Module: Fractions Unit: Adding Fractions Session: Adding with Like Denominators			
				Module: Fractions Unit: Adding Fractions Session: Adding with Unlike Denominators			
				Module: Fractions Unit: Adding Fractions Session: Solving Missing Value Problems when Adding Fractions			
				Module: Fractions Unit: Subtracting Fractions Session: Subtracting with Like Denominators			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Fractions Unit: Subtracting Fractions Session: Subtracting with Unlike Denominators			
				Module: Fractions Unit: Subtracting Fractions Session: Solving Missing Value Problems when Subtracting Fractions			
				Module: Decimals Unit: Adding and Subtracting Decimals Session: Using Place Value Grids			
				Module: Decimals Unit: Adding and Subtracting Decimals Session: Regrouping with Whole Numbers			
				Module: Decimals Unit: Adding and Subtracting Decimals Session: Regrouping to Hundredths			
				Module: Decimals Unit: Multiplying Decimals Session: Multiplying Decimals by Powers of 10			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Decimals Unit: Multiplying Decimals Session: Calculating Products			
				Module: Decimals Unit: Multiplying Decimals Session: Finding the Volume of a Prism			
				Module: Decimals Unit: Dividing Decimals Session: Dividing Decimals by Whole Numbers			
				Module: Decimals Unit: Dividing Decimals Session: Estimating and Finding Quotients			
				Module: Decimals Unit: Dividing Decimals Session: Dividing by Powers of 10			
				Module: Percents Unit: Finding Percents of Quantities Session: Finding Percents of a Whole			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Percents Unit: Finding Percents of Quantities Session: Expressing Ratios as Percents			
				Module: Percents Unit: Finding Percents of Quantities Session: Calculating the Whole from a Part and a Percent			
				Module: Percents Unit: Increasing and Decreasing Percents Session: Calculating Percent Increases			
				Module: Percents Unit: Increasing and Decreasing Percents Session: Calculating Percent Decreases			
				Module: Percents Unit: Increasing and Decreasing Percents Session: Calculating Simple Interest			
C. Compose and Decompose numbers							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
recognize equivalent representations for the same number and generate them by decomposing and composing numbers including scientific notation			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Whole Numbers to One Million	Module: Fractions Unit: Equivalent Fractions Session: Identifying the Factors of a Number	Module: Radicals & Exponents Unit: Introduction to Scientific Notation Session: Writing Numbers Using Scientific Notation		
			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Ordering and Rounding Whole Numbers	Module: Fractions Unit: Equivalent Fractions Session: Expressing Fractions in Lowest Terms	Module: Radicals & Exponents Unit: Introduction to Scientific Notation Session: Comparing Numbers in Scientific Notation		
			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Negative Whole Numbers	Module: Fractions Unit: Equivalent Fractions Session: Writing and Comparing Equivalent Fractions			
			Module: Fractions Unit: Proper and Improper Fractions Session: Improper Fractions	Module: Fractions Unit: Essentials of Fractions Session: Exploring Proper and Improper Fractions			
			Module: Fractions Unit: Proper and Improper Fractions Session: Equivalent Fractions	Module: Fractions Unit: Essentials of Fractions Session: Working with Mixed Numbers			
			Module: Decimals Unit: Introduction Session: Tenths, Hundredths, and Thousandths	Module: Percents Unit: Increasing and Decreasing Percents Session: Calculating Percent Increases			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents	Module: Percents Unit: Increasing and Decreasing Percents Session: Calculating Percent Decreases			
			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Finding Factors	Module: Percents Unit: Increasing and Decreasing Percents Session: Calculating Simple Interest			
			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Prime and Composite Numbers	Module: Decimals Unit: Essentials of Decimals Session: Investigating Decimal Place Values			
			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Identifying Common Factors	Module: Decimals Unit: Essentials of Decimals Session: Rounding Decimals			
				Module: Decimals Unit: Essentials of Decimals Session: Exploring Repeating and Terminating Decimals			
				Module: Integers and Order of Operations Unit: Order of Operations Session: Simplifying Expressions			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
D. Classify and describe numeric relationships							
use factors and multiples to describe relationships between and among numbers and justify characteristics of numbers				Module: Fractions Unit: Equivalent Fractions Session: Identifying the Factors of a Number			
				Module: Fractions Unit: Equivalent Fractions Session: Expressing Fractions in Lowest Terms			
				Module: Fractions Unit: Equivalent Fractions Session: Writing and Comparing Equivalent Fractions			
				Module: Fractions Unit: Multiplying Fractions Session: Using the GCF in Finding Products			
				Module: Fractions Unit: Adding Fractions Session: Adding with Unlike Denominators			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Decimals Unit: Multiplying Decimals Session: Multiplying Decimals by Powers of 10			
2. Understand meanings of operations and how they relate to one another							
A. Represent Operations							
B. Describe effects of operations							
describe the effects of multiplication and division on integers				Module: Integers and Order of Operations Unit: Multiplying and Dividing Signed Numbers Session: Finding Products of Signed Numbers			
				Module: Integers and Order of Operations Unit: Multiplying and Dividing Signed Numbers Session: Representing the Multiplication of Signed Numbers			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Integers and Order of Operations Unit: Multiplying and Dividing Signed Numbers Session: Finding Quotients Using Reciprocals			
C. Apply properties of operations							
apply properties of operations to rational numbers, including order of operations and inverse operations				Module: Integers and Order of Operations Unit: Order of Operations Session: Simplifying Expressions	Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Combining Like Terms	Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Applying Properties of Real Numbers	
				Module: Integers and Order of Operations Unit: Order of Operations Session: Introducing the Distributive Property	Module: Essentials of Algebra Unit: Simple Equations Session: Simplifying Algebraic Expressions	Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Evaluating and Simplifying Expressions	
				Module: Integers and Order of Operations Unit: Order of Operations Session: Using Grouping Symbols	Module: Essentials of Algebra Unit: Simple Equations Session: Solving Simple Equations	Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Applying Inverse Operations	
D. Apply operations on real and complex numbers							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
apply the relationship between squares and square roots and cubes and cube roots to solve a problem					Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Investigating Squares & Square Roots		
3. Compute fluently and make reasonable estimates							
A. Describe or represent mental strategies							
B. Develop and demonstrate fluency							
C. Compute problems							
apply all operations on rational numbers			Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums	Module: Fractions Unit: Adding Fractions Session: Adding with Like Denominators			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Differences Between Large Numbers	Module: Fractions Unit: Adding Fractions Session: Adding with Unlike Denominators			
			Module: Operations with Numbers Unit: The Integers Session: Integer Sums	Module: Fractions Unit: Adding Fractions Session: Solving Missing Value Problems when Adding Fractions			
			Module: Operations with Numbers Unit: The Integers Session: Differences Between Integers	Module: Fractions Unit: Subtracting Fractions Session: Subtracting with Like Denominators			
			Module: Fractions Unit: Addition and Subtraction Session: Sums involving Like Denominators	Module: Fractions Unit: Subtracting Fractions Session: Subtracting with Unlike Denominators			
			Module: Fractions Unit: Addition and Subtraction Session: Differences involving Like Denominators	Module: Fractions Unit: Subtracting Fractions Session: Solving Missing Value Problems when Subtracting Fractions			
			Module: Fractions Unit: Addition and Subtraction Session: Working with Unlike Denominators	Module: Decimals Unit: Adding and Subtracting Decimals Session: Using Place Value Grids			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Decimals Unit: Addition and Subtraction Session: Adding Decimals	Module: Decimals Unit: Adding and Subtracting Decimals Session: Regrouping with Whole Numbers			
			Module: Decimals Unit: Addition and Subtraction Session: Subtracting Decimals	Module: Decimals Unit: Adding and Subtracting Decimals Session: Regrouping to Hundredths			
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers	Module: Fractions Unit: Multiplying Fractions Session: Finding Products of Fractions, Whole Numbers, and Mixed Numbers			
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division	Module: Fractions Unit: Multiplying Fractions Session: Using the GCF in Finding Products			
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Divisors	Module: Fractions Unit: Multiplying Fractions Session: Representing Multiplication			
			Module: Fractions Unit: Multiplication and Division Session: Finding Products	Module: Fractions Unit: Dividing Fractions Session: Estimating Quotients of Fractions			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Fractions Unit: Multiplication and Division Session: Quotients and Remainders	Module: Fractions Unit: Dividing Fractions Session: Using Multiplicative Inverses			
			Module: Decimals Unit: Multiplication and Division Session: Multiplying Decimals	Module: Fractions Unit: Dividing Fractions Session: Solving Missing Value Problems when Dividing Fractions			
			Module: Decimals Unit: Multiplication and Division Session: Dividing Decimals by Whole Numbers	Module: Decimals Unit: Multiplying Decimals Session: Multiplying Decimals by Powers of 10			
				Module: Decimals Unit: Multiplying Decimals Session: Calculating Products			
				Module: Decimals Unit: Multiplying Decimals Session: Finding the Volume of a Prism			
				Module: Decimals Unit: Dividing Decimals Session: Dividing Decimals by Whole Numbers			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Decimals Unit: Dividing Decimals Session: Estimating and Finding Quotients			
				Module: Decimals Unit: Dividing Decimals Session: Dividing by Powers of 10			
				Module: Integers and Order of Operations Unit: Adding and Subtracting Signed Numbers Session: Exploring the Number Line and Absolute Value			
				Module: Integers and Order of Operations Unit: Adding and Subtracting Signed Numbers Session: Adding with Absolute Value			
				Module: Integers and Order of Operations Unit: Adding and Subtracting Signed Numbers Session: Subtracting with Absolute Value			
				Module: Integers and Order of Operations Unit: Multiplying and Dividing Signed Numbers Session: Finding Products of Signed Numbers			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Integers and Order of Operations Unit: Multiplying and Dividing Signed Numbers Session: Representing the Multiplication of Signed Numbers			
				Module: Integers and Order of Operations Unit: Multiplying and Dividing Signed Numbers Session: Finding Quotients Using Reciprocals			
D. Estimate and justify solutions							
estimate and justify the results of all operations on rational numbers			Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums	Module: Integers and Order of Operations Unit: Adding and Subtracting Signed Numbers Session: Adding with Absolute Value			
			Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Differences Between Large Numbers	Module: Integers and Order of Operations Unit: Adding and Subtracting Signed Numbers Session: Subtracting with Absolute Value			
			Module: Fractions Unit: Addition and Subtraction Session: Sums involving Like Denominators	Module: Integers and Order of Operations Unit: Multiplying and Dividing Signed Numbers Session: Finding Products of Signed Numbers			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Fractions Unit: Addition and Subtraction Session: Differences involving Like Denominators	Module: Integers and Order of Operations Unit: Multiplying and Dividing Signed Numbers Session: Representing the Multiplication of Signed Numbers			
			Module: Fractions Unit: Addition and Subtraction Session: Working with Unlike Denominators	Module: Integers and Order of Operations Unit: Multiplying and Dividing Signed Numbers Session: Finding Quotients Using Reciprocals			
			Module: Decimals Unit: Addition and Subtraction Session: Adding Decimals				
			Module: Decimals Unit: Addition and Subtraction Session: Subtracting Decimals				
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division				
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Divisors				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Fractions Unit: Multiplication and Division Session: Finding Products				
			Module: Fractions Unit: Multiplication and Division Session: Quotients and Remainders				
			Module: Decimals Unit: Multiplication and Division Session: Multiplying Decimals				
			Module: Decimals Unit: Multiplication and Division Session: Dividing Decimals by Whole Numbers				
E. Use proportional reasoning							
solve problems involving proportions, such as scaling and finding equivalent ratios					Module: Ratio & Proportion Unit: Direct & Inverse Variation Session: Exploring & Solving Direct Variation Problems		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Ratio & Proportion Unit: Direct & Inverse Variation Session: Exploring Inverse Variation		
					Module: Ratio & Proportion Unit: Direct & Inverse Variation Session: Solving Inverse Variation Problems		
					Module: Ratio & Proportion Unit: Similar Polygons Session: Defining Similarity		
					Module: Ratio & Proportion Unit: Similar Polygons Session: Identifying Equivalent Ratios		
					Module: Ratio & Proportion Unit: Similar Polygons Session: Setting up & Solving Proportions in Similar Polygons		
Algebraic Relationships							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
1. Understand patterns, relations and functions							
A. Recognize and extend patterns							
B. Create and analyze patterns							
generalize patterns represented graphically or numerically using words or symbolic rules , including recursive notation					Module: Essentials of Algebra Unit: Simple Equations Session: Using Variables to Express Relationships		
					Module: Essentials of Algebra Unit: Simple Equations Session: Simplifying Algebraic Expressions		
					Module: Essentials of Algebra Unit: Simple Equations Session: Solving Simple Equations		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Writing Equations		
					Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Simplifying Both Sides of an Equation		
					Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Checking the Solution to an Equation		
					Module: Essentials of Algebra Unit: Solving Literal Equations Session: Identifying the Variables in a Given Formula		
					Module: Essentials of Algebra Unit: Solving Literal Equations Session: Rewriting a Formula in Terms of a Different Variable		
					Module: Essentials of Algebra Unit: Solving Literal Equations Session: Substituting Values & Solving an Equation		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Line Graphs		
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Bar Graphs		
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Interpreting Pie Charts		
					Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Defining the Mean & Median		
					Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Defining the Mode		
					Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Calculating the Mean, Median, & Mode		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
C. Classify objects and representations							
compare and contrast various forms of representations of patterns							
D. Identify and compare functions							
compare properties of linear functions between or among tables, graphs and equations						Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Defining Slope	
						Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Finding x- and y-Intercepts	
						Module: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Slope-Intercept Equation of a Line	

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
						Module: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Point-Slope Equation of a Line	
						Module: Linear Functions and Equations Unit: Introduction to Functions Session: Relations and Functions	
						Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Finding the Point of Intersection	
						Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Graphing Parallel & Perpendicular Lines	
						Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Substitution to Eliminate a Variable	
						Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Addition or Subtraction to Eliminate a Variable	

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
E. Describe the effects of parameter changes							
2. Represent and analyze mathematical situations and structures using algebraic symbols							
A. Represent mathematical situations							
use symbolic algebra to represent and solve problems that involve linear relationships, including recursive relationships						Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Applying Inverse Operations	
						Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Transforming Equations using Multiple Operations	
						Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Solving Absolute Value Equations	

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
						Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Graphing Ordered Pairs	
						Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Defining Slope	
						Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Finding x- and y-Intercepts	
						Module: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Slope-Intercept Equation of a Line	
						Module: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Point-Slope Equation of a Line	
						Module: Linear Functions and Equations Unit: Introduction to Functions Session: Relations and Functions	

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
						Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Finding the Point of Intersection	
						Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Graphing Parallel & Perpendicular Lines	
						Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Substitution to Eliminate a Variable	
						Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Addition or Subtraction to Eliminate a Variable	
B. Describe and use mathematical manipulation							
generate equivalent forms for linear expressions						Module: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Slope-Intercept Equation of a Line	

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
						Module: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Point-Slope Equation of a Line	
						Module: Linear Functions and Equations Unit: Introduction to Functions Session: Relations and Functions	
						Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Finding the Point of Intersection	
						Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Graphing Parallel & Perpendicular Lines	
						Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Substitution to Eliminate a Variable	
						Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Addition or Subtraction to Eliminate a Variable	

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
C. Utilize equivalent forms							
D. Utilize systems							
3. Use mathematical models to represent and understand quantitative relationships							
A. Use mathematical models							
model and solve problems, using multiple representations such as graphs, tables, equations or inequalities					Module: Essentials of Algebra Unit: Simple Equations Session: Solving Simple Equations	Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Applying Properties of Real Numbers	
					Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Writing Equations	Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Evaluating and Simplifying Expressions	

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Simplifying Both Sides of an Equation	Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Applying Inverse Operations	
					Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Checking the Solution to an Equation	Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Transforming Equations using Multiple Operations	
					Module: Essentials of Algebra Unit: Solving Literal Equations Session: Identifying the Variables in a Given Formula	Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Solving Absolute Value Equations	
					Module: Essentials of Algebra Unit: Solving Literal Equations Session: Rewriting a Formula in Terms of a Different Variable	Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Substitution to Eliminate a Variable	
					Module: Essentials of Algebra Unit: Solving Literal Equations Session: Substituting Values & Solving an Equation	Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Addition or Subtraction to Eliminate a Variable	
4. Analyze change in various contexts							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Analyze change							
analyze the nature of changes (including slope and intercepts) in quantities in linear relationships						Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Defining Slope	
						Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Finding x- and y-Intercepts	
						Module: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Slope-Intercept Equation of a Line	
						Module: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Point-Slope Equation of a Line	
						Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Finding the Point of Intersection	

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
Geometric and Spatial Relationships							
1. Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships							
A. Describe and use geometric relationships							
describe, classify and generalize relationships between and among types of a) 2-dimensional objects and b) 3-dimensional objects using their defining properties including Pythagorean Theorem and cross-section of a 3-dimensional object results in what 2-dimensional shape					Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Exploring the Pythagorean Theorem		
					Module: Ratio & Proportion Unit: Similar Polygons Session: Setting up & Solving Proportions in Similar Polygons		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Naming and Measuring Angles		
					Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Defining Complementary & Supplementary Angles		
					Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Recognizing Congruent Angles		
					Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Sides		
					Module: Fundamentals of Geometry Unit: Triangles Session: Exploring the Area of a Triangle		
					Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Angles		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
B. Apply geometric relationships							
apply relationships between corresponding sides and corresponding areas of similar polygons to solve problems					Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Sides		
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Surface Area of a Right Triangular Prism		
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume & Surface Area of a Right Cylinder		
					Module: Ratio & Proportion Unit: Similar Polygons Session: Identifying Equivalent Ratios		
					Module: Ratio & Proportion Unit: Similar Polygons Session: Setting up & Solving Proportions in Similar Polygons		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
C. Compose and decompose shapes							
2. Specify locations and describe spatial relationships using coordinate geometry and other representational systems							
A. Use coordinate systems							
use coordinate geometry to analyze properties of right triangles and quadrilaterals			Module: Geometry Unit: Coordinate Geometry and Algebra Session: The Coordinate Plane			Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Graphing Ordered Pairs	
3. Apply transformations and use symmetry to analyze mathematical situations							
A. Use transformations on objects							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
reposition shapes under formal transformations such as reflection, rotation and translation			Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations				
B. Use transformations on function							
describe the relationship between the scale factor and the area of the image using a dilation (stretching/shrinking)					Module: Ratio & Proportion Unit: Similar Polygons Session: Defining Similarity		
					Module: Ratio & Proportion Unit: Similar Polygons Session: Identifying Equivalent Ratios		
					Module: Ratio & Proportion Unit: Similar Polygons Session: Setting up & Solving Proportions in Similar Polygons		
C. Use symmetry							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
identify the number of rotational symmetries of regular polygons			Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations				
4. Use visualization, spatial reasoning and geometric modeling to solve problems							
A. Recognize and draw three-dimensional representations							
create isometric drawings from a given mat plan							
B. Draw and use visual models							
draw or use visual models to represent and solve problems					Module: Fundamentals of Geometry Unit: Triangles Session: Exploring the Area of a Triangle		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Angles		
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume of a Right Triangular Prism		
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Surface Area of a Right Triangular Prism		
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume & Surface Area of a Right Cylinder		
Measurement							
1. Understand measurable attributes of objects and the units, systems and processes of measurement							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Determine unit of measurement							
B. Identify equivalent measures							
identify the equivalent volume measures within a system of measurement (e.g., m cubed to cm cubed)							
C. Tell and use units of time							
D. Count and compute money							
2. Apply appropriate techniques, tools and formulas to determine measurements							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Use standard or non-standard measurement							
B. Use angle measurement							
use tools to determine the measure of reflex angles to the nearest degree							
C. Apply geometric measurements							
describe how to solve problems involving surface area and/or volume of a rectangular or triangular prism, or cylinder					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Surface Area of a Right Triangular Prism		
D. Analyze precision							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
analyze precision and accuracy in measurement situations and determine number of significant digits							
E. Use relationships within a measurement system							
convert square or cubic units to equivalent square or cubic units within the same system of measurement							
Data and Probability							
1. Formulate questions that can be addressed with data and collect, organize and display relevant data to answer them							
A. Formulate questions							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
formulate questions, design studies and collect data about a characteristic					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Line Graphs		
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Bar Graphs		
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Interpreting Pie Charts		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Creating & Interpreting a Frequency Table		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Defining a Histogram		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Exploring Cumulative Frequency Graphs		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
B. Classify and organize data							
C. Represent and interpret data							
select, create and use appropriate graphical representation of data (including scatter plots)					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Line Graphs		Module: Describing Data Unit: Graphical Displays Session: Stem-&-Leaf Plots & Box Plots
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Bar Graphs		Module: Describing Data Unit: Graphical Displays Session: Scatter Plots & Linear Best-Fit Graphs
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Interpreting Pie Charts		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Creating & Interpreting a Frequency Table		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Defining a Histogram		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Exploring Cumulative Frequency Graphs		
2. Select and use appropriate statistical methods to analyze data							
A. Describe and analyze data							
find, use and interpret measures of center, outliers and spread, including range and interquartile range							Module: Describing Data Unit: Graphical Displays Session: Stem-&-Leaf Plots & Box Plots
B. Compare data representations							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
compare different representations of the same data and evaluate how well each representation shows important aspects of the data							Module: Describing Data Unit: Graphical Displays Session: Stem-&-Leaf Plots & Box Plots
							Module: Describing Data Unit: Graphical Displays Session: Scatter Plots & Linear Best-Fit Graphs
C. Represent data algebraically							
3. Develop and evaluate inferences and predictions that are based on data							
A. Develop and evaluate inferences							
make conjectures about possible relationships between 2 characteristics of a sample on the basis of scatter plots of the data and approximate line of fit							Module: Describing Data Unit: Graphical Displays Session: Scatter Plots & Linear Best-Fit Graphs

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
B. Analyze basic statistical techniques							
4. Understand and apply basic concepts of probability							
A. Apply basic concepts of probability							
make conjectures (based on theoretical probability) about the results of experiments					Module: Fundamentals of Probability Unit: Simple Probability Session: Defining & Expressing Probability		
					Module: Fundamentals of Probability Unit: Simple Probability Session: Calculating Probabilities on a Color Wheel		
					Module: Fundamentals of Probability Unit: Simple Probability Session: Determining Probabilities of Complementary Events		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
B. Use and describe compound events							
Ninth Grade							
Number and Operation							
1. Understand numbers, ways of representing numbers, relationships among numbers and number systems							
A. Read, write and compare numbers							
compare and order rational and irrational numbers, including finding their approximate locations on a number line				Module: Integers and Order of Operations Unit: Adding and Subtracting Signed Numbers Session: Exploring the Number Line and Absolute Value	Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Defining Irrational Numbers	Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Applying Properties of Real Numbers	Module: The Real Number System Unit: Rational & Irrational Numbers Session: Defining the Real Numbers

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
						Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Applying Inverse Operations	Module: The Real Number System Unit: Rational & Irrational Numbers Session: Working with Radicals
						Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Solving Absolute Value Equations	Module: The Real Number System Unit: Rational & Irrational Numbers Session: The Square Root Function
B. Represent and use rational numbers							
C. Compose and Decompose numbers							
D. Classify and describe numeric relationships							
2. Understand meanings of operations and how they relate to one another							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Represent Operations							
B. Describe effects of operations							
describe the effects of operations, such as multiplication, division, and computing powers and roots on the magnitude of quantities					Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Combining Like Terms	Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Applying Properties of Real Numbers	Module: The Real Number System Unit: Rational & Irrational Numbers Session: Defining the Real Numbers
					Module: Essentials of Algebra Unit: Simple Equations Session: Simplifying Algebraic Expressions		Module: The Real Number System Unit: Rational & Irrational Numbers Session: Working with Radicals
					Module: Essentials of Algebra Unit: Simple Equations Session: Solving Simple Equations		Module: The Real Number System Unit: Rational & Irrational Numbers Session: The Square Root Function
					Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Investigating Squares & Square Roots		Module: Powers & Polynomials Unit: Polynomial Arithmetic Session: Working with Powers

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Defining Irrational Numbers		Module: Powers & Polynomials Unit: Polynomial Arithmetic Session: Multiplying Polynomials
					Module: Ratio & Proportion Unit: Proportion Session: Applying the Means/Extremes Property		Module: Quadratic Functions & Equations Unit: Solving Quadratic Equations Using Algebra Session: Factoring & the Zero Product Theorem
							Module: Quadratic Functions & Equations Unit: Solving Quadratic Equations Using Algebra Session: The Square Root Method & Completing the Square
							Module: Quadratic Functions & Equations Unit: Solving Quadratic Equations Using Algebra Session: The Quadratic Formula
							Module: Algebraic Expressions & Functions Unit: Radical Equations & Functions Session: Solving Radical Equations
C. Apply properties of operations							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
apply properties of exponents (including order of operations) to simplify expressions					Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Investigating Squares & Square Roots		Module: The Real Number System Unit: Rational & Irrational Numbers Session: Defining the Real Numbers
							Module: The Real Number System Unit: Rational & Irrational Numbers Session: Working with Radicals
							Module: The Real Number System Unit: Rational & Irrational Numbers Session: The Square Root Function
							Module: Powers & Polynomials Unit: Polynomial Arithmetic Session: Working with Powers
							Module: Powers & Polynomials Unit: Polynomial Arithmetic Session: Adding & Subtracting Polynomial Expressions
							Module: Powers & Polynomials Unit: Polynomial Arithmetic Session: Multiplying Polynomials

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
D. Apply operations on real and complex numbers							
apply operations to real numbers, using mental computation or paper-and-pencil calculations for simple cases and technology for more complicated cases					Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Exploring the Pythagorean Theorem	Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Translating Words into Expressions	Module: The Real Number System Unit: Rational & Irrational Numbers Session: Defining the Real Numbers
					Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Investigating Squares & Square Roots	Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Evaluating and Simplifying Expressions	Module: The Real Number System Unit: Rational & Irrational Numbers Session: Working with Radicals
					Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Defining Irrational Numbers	Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Applying Inverse Operations	Module: The Real Number System Unit: Rational & Irrational Numbers Session: The Square Root Function
					Module: Ratio & Proportion Unit: Direct & Inverse Variation Session: Solving Inverse Variation Problems	Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Transforming Equations using Multiple Operations	Module: Powers & Polynomials Unit: Polynomial Arithmetic Session: Working with Powers
						Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Solving Absolute Value Equations	Module: Powers & Polynomials Unit: Polynomial Arithmetic Session: Adding & Subtracting Polynomial Expressions

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
							Module: Powers & Polynomials Unit: Polynomial Arithmetic Session: Multiplying Polynomials
							Module: Quadratic Functions & Equations Unit: Solving Quadratic Equations Using Algebra Session: Factoring & the Zero Product Theorem
							Module: Quadratic Functions & Equations Unit: Solving Quadratic Equations Using Algebra Session: The Square Root Method & Completing the Square
							Module: Quadratic Functions & Equations Unit: Solving Quadratic Equations Using Algebra Session: The Quadratic Formula
							Module: Algebraic Expressions & Functions Unit: Radical Equations & Functions Session: Solving Radical Equations
							Module: Algebraic Expressions & Functions Unit: Rational Expressions, Equations & Functions Session: Rational Operations

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
							Module: Algebraic Expressions & Functions Unit: Rational Expressions, Equations & Functions Session: Rational Equations
3. Compute fluently and make reasonable estimates							
A. Describe or represent mental strategies							
B. Develop and demonstrate fluency							
C. Compute problems							
apply all operations on real numbers				Module: Fractions Unit: Multiplying Fractions Session: Finding Products of Fractions, Whole Numbers, and Mixed Numbers	Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Evaluating Expressions Using Substitution	Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Applying Properties of Real Numbers	Module: Powers & Polynomials Unit: Polynomial Arithmetic Session: Working with Powers

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Fractions Unit: Multiplying Fractions Session: Using the GCF in Finding Products	Module: Essentials of Algebra Unit: Simple Equations Session: Simplifying Algebraic Expressions	Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Evaluating and Simplifying Expressions	Module: Powers & Polynomials Unit: Polynomial Arithmetic Session: Adding & Subtracting Polynomial Expressions
				Module: Fractions Unit: Multiplying Fractions Session: Representing Multiplication	Module: Essentials of Algebra Unit: Simple Equations Session: Solving Simple Equations	Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Applying Inverse Operations	Module: Powers & Polynomials Unit: Polynomial Arithmetic Session: Multiplying Polynomials
				Module: Fractions Unit: Dividing Fractions Session: Estimating Quotients of Fractions	Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Simplifying Both Sides of an Equation	Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Transforming Equations using Multiple Operations	Module: Powers & Polynomials Unit: Factoring Polynomials Session: Finding Common Factors
				Module: Fractions Unit: Dividing Fractions Session: Using Multiplicative Inverses	Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Defining Irrational Numbers	Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Substitution to Eliminate a Variable	Module: Powers & Polynomials Unit: Factoring Polynomials Session: Factoring Quadratic Trinomials
				Module: Fractions Unit: Dividing Fractions Session: Solving Missing Value Problems when Dividing Fractions		Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Addition or Subtraction to Eliminate a Variable	Module: Powers & Polynomials Unit: Factoring Polynomials Session: Special Cases
				Module: Fractions Unit: Adding Fractions Session: Adding with Like Denominators			Module: Quadratic Functions & Equations Unit: Solving Quadratic Equations Using Algebra Session: Factoring & the Zero Product Theorem

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Fractions Unit: Adding Fractions Session: Adding with Unlike Denominators			Module: Quadratic Functions & Equations Unit: Solving Quadratic Equations Using Algebra Session: The Square Root Method & Completing the Square
				Module: Fractions Unit: Adding Fractions Session: Solving Missing Value Problems when Adding Fractions			Module: Quadratic Functions & Equations Unit: Solving Quadratic Equations Using Algebra Session: The Quadratic Formula
				Module: Fractions Unit: Subtracting Fractions Session: Subtracting with Like Denominators			Module: Algebraic Expressions & Functions Unit: Radical Equations & Functions Session: Solving Radical Equations
				Module: Fractions Unit: Subtracting Fractions Session: Subtracting with Unlike Denominators			Module: Algebraic Expressions & Functions Unit: Radical Equations & Functions Session: The Inverse of the Square Root Function
				Module: Fractions Unit: Subtracting Fractions Session: Solving Missing Value Problems when Subtracting Fractions			Module: Algebraic Expressions & Functions Unit: Rational Expressions, Equations & Functions Session: Rational Operations
				Module: Decimals Unit: Adding and Subtracting Decimals Session: Using Place Value Grids			Module: Algebraic Expressions & Functions Unit: Rational Expressions, Equations & Functions Session: Rational Equations

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Decimals Unit: Adding and Subtracting Decimals Session: Regrouping with Whole Numbers			
				Module: Decimals Unit: Adding and Subtracting Decimals Session: Regrouping to Hundredths			
				Module: Decimals Unit: Multiplying Decimals Session: Multiplying Decimals by Powers of 10			
				Module: Decimals Unit: Multiplying Decimals Session: Calculating Products			
				Module: Decimals Unit: Multiplying Decimals Session: Finding the Volume of a Prism			
				Module: Decimals Unit: Dividing Decimals Session: Dividing Decimals by Whole Numbers			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Decimals Unit: Dividing Decimals Session: Estimating and Finding Quotients			
				Module: Decimals Unit: Dividing Decimals Session: Dividing by Powers of 10			
				Module: Integers and Order of Operations Unit: Adding and Subtracting Signed Numbers Session: Exploring the Number Line and Absolute Value			
				Module: Integers and Order of Operations Unit: Adding and Subtracting Signed Numbers Session: Adding with Absolute Value			
				Module: Integers and Order of Operations Unit: Adding and Subtracting Signed Numbers Session: Subtracting with Absolute Value			
				Module: Integers and Order of Operations Unit: Multiplying and Dividing Signed Numbers Session: Finding Products of Signed Numbers			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Integers and Order of Operations Unit: Multiplying and Dividing Signed Numbers Session: Representing the Multiplication of Signed Numbers			
				Module: Integers and Order of Operations Unit: Multiplying and Dividing Signed Numbers Session: Finding Quotients Using Reciprocals			
D. Estimate and justify solutions							
judge the reasonableness of numerical computations and their results					Module: Essentials of Algebra Unit: Simple Equations Session: Solving Simple Equations	Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Applying Inverse Operations	
					Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Checking the Solution to an Equation	Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Graphing Parallel & Perpendicular Lines	
					Module: Essentials of Algebra Unit: Solving Literal Equations Session: Substituting Values & Solving an Equation		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
E. Use proportional reasoning							
solve problems involving proportions					Module: Ratio & Proportion Unit: Proportion Session: Applying the Means/Extremes Property		
					Module: Ratio & Proportion Unit: Direct & Inverse Variation Session: Exploring & Solving Direct Variation Problems		
					Module: Ratio & Proportion Unit: Direct & Inverse Variation Session: Exploring Inverse Variation		
					Module: Ratio & Proportion Unit: Direct & Inverse Variation Session: Solving Inverse Variation Problems		
					Module: Ratio & Proportion Unit: Similar Polygons Session: Defining Similarity		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Ratio & Proportion Unit: Similar Polygons Session: Identifying Equivalent Ratios		
					Module: Ratio & Proportion Unit: Similar Polygons Session: Setting up & Solving Proportions in Similar Polygons		
Algebraic Relationships							
1. Understand patterns, relations and functions							
A. Recognize and extend patterns							
B. Create and analyze patterns							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
generalize patterns using explicity or recursively defined functions						Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Finding the Point of Intersection	Module: The Real Number System Unit: Rational & Irrational Numbers Session: The Square Root Function
						Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Graphing Parallel & Perpendicular Lines	Module: Algebraic Expressions & Functions Unit: Radical Equations & Functions Session: The Inverse of the Square Root Function
						Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Substitution to Eliminate a Variable	Module: Algebraic Expressions & Functions Unit: Rational Expressions, Equations & Functions Session: Rational Functions
						Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Addition or Subtraction to Eliminate a Variable	
						Module: Linear Functions and Equations Unit: Introduction to Functions Session: Relations and Functions	
C. Classify objects and representations							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
compare and contrast various forms of representations of patterns							
D. Identify and compare functions							
understand and compare the properties of linear and exponential functions (include intercepts)						Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Applying Inverse Operations	Module: The Real Number System Unit: Rational & Irrational Numbers Session: The Square Root Function
						Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Transforming Equations using Multiple Operations	Module: Algebraic Expressions & Functions Unit: Radical Equations & Functions Session: The Inverse of the Square Root Function
						Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Solving Absolute Value Equations	Module: Algebraic Expressions & Functions Unit: Rational Expressions, Equations & Functions Session: Rational Functions
						Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Defining Slope	

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
						Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Finding x- and y-Intercepts	
						Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Finding the Point of Intersection	
						Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Graphing Parallel & Perpendicular Lines	
						Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Substitution to Eliminate a Variable	
						Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Addition or Subtraction to Eliminate a Variable	
E. Describe the effects of parameter changes							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
describe the effects of parameter changes on linear functions							Module: Algebraic Expressions & Functions Unit: Rational Expressions, Equations & Functions Session: Rational Functions
2. Represent and analyze mathematical situations and structures using algebraic symbols							
A. Represent mathematical situations							
use symbolic algebra to represent and solve problems that involve linear relationships, including absolute value and recursive relationships						Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Graphing Ordered Pairs	
						Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Defining Slope	
						Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Finding x- and y-Intercepts	

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
						Module: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Slope-Intercept Equation of a Line	
						Module: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Point-Slope Equation of a Line	
						Module: Linear Functions and Equations Unit: Introduction to Functions Session: Relations and Functions	
						Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Finding the Point of Intersection	
						Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Graphing Parallel & Perpendicular Lines	
						Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Substitution to Eliminate a Variable	

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
						Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Addition or Subtraction to Eliminate a Variable	
						Module: Linear Inequalities Unit: Inequalities in One Variable Session: Applying Inverse Operations	
B. Describe and use mathematical manipulation							
describe and use algebraic manipulations, including factoring and rules of integer exponents					Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Combining Like Terms	Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Evaluating and Simplifying Expressions	Module: The Real Number System Unit: Rational & Irrational Numbers Session: Defining the Real Numbers
					Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Evaluating Expressions Using Substitution	Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Applying Inverse Operations	Module: The Real Number System Unit: Rational & Irrational Numbers Session: Working with Radicals
					Module: Essentials of Algebra Unit: Simple Equations Session: Simplifying Algebraic Expressions	Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Transforming Equations using Multiple Operations	Module: The Real Number System Unit: Rational & Irrational Numbers Session: The Square Root Function

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Essentials of Algebra Unit: Simple Equations Session: Solving Simple Equations	Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Solving Absolute Value Equations	Module: Powers & Polynomials Unit: Polynomial Arithmetic Session: Working with Powers
					Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Simplifying Both Sides of an Equation		Module: Powers & Polynomials Unit: Polynomial Arithmetic Session: Adding & Subtracting Polynomial Expressions
					Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Checking the Solution to an Equation		Module: Powers & Polynomials Unit: Polynomial Arithmetic Session: Multiplying Polynomials
					Module: Essentials of Algebra Unit: Solving Literal Equations Session: Substituting Values & Solving an Equation		Module: Powers & Polynomials Unit: Factoring Polynomials Session: Finding Common Factors
					Module: Ratio & Proportion Unit: Direct & Inverse Variation Session: Solving Inverse Variation Problems		Module: Powers & Polynomials Unit: Factoring Polynomials Session: Factoring Quadratic Trinomials
							Module: Powers & Polynomials Unit: Factoring Polynomials Session: Special Cases

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
C. Utilize equivalent forms							
use and solve equivalent forms of equations and inequalities (linear)						Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Finding the Point of Intersection	
						Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Graphing Parallel & Perpendicular Lines	
						Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Substitution to Eliminate a Variable	
						Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Addition or Subtraction to Eliminate a Variable	
						Module: Linear Inequalities Unit: Inequalities in One Variable Session: Applying Inverse Operations	

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
						Module: Linear Inequalities Unit: Inequalities in One Variable Session: Graphing Solutions on a Number Line	
						Module: Linear Inequalities Unit: Inequalities in One Variable Session: Solving Absolute Value Inequalities	
						Module: Linear Inequalities Unit: Inequalities in Two Variables Session: Graphing Solutions on a Rectangular Coordinate Plane	
						Module: Linear Inequalities Unit: Inequalities in Two Variables Session: Solving Systems by Graphing	
D. Utilize systems							
use and solve systems of linear equations with 2 variables						Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Finding the Point of Intersection	

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
						Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Graphing Parallel & Perpendicular Lines	
						Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Substitution to Eliminate a Variable	
						Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Addition or Subtraction to Eliminate a Variable	
3. Use mathematical models to represent and understand quantitative relationships							
A. Use mathematical models							
identify quantitative relationships and determine the type(s) of functions that might model the situation to solve the problem						Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Finding x- and y-Intercepts	Module: The Real Number System Unit: Rational & Irrational Numbers Session: The Square Root Function

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
						Module: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Slope-Intercept Equation of a Line	Module: Algebraic Expressions & Functions Unit: Rational Expressions, Equations & Functions Session: Rational Functions
						Module: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Point-Slope Equation of a Line	
						Module: Linear Functions and Equations Unit: Introduction to Functions Session: Relations and Functions	
						Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Finding the Point of Intersection	
						Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Graphing Parallel & Perpendicular Lines	
4. Analyze change in various contexts							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Analyze change							
analyze linear functions by investigating rates of change and intercepts						Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Defining Slope	
						Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Finding x- and y-Intercepts	
						Module: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Slope-Intercept Equation of a Line	
						Module: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Point-Slope Equation of a Line	
						Module: Linear Functions and Equations Unit: Introduction to Functions Session: Relations and Functions	

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
						Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Finding the Point of Intersection	
						Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Graphing Parallel & Perpendicular Lines	
Geometric and Spatial Relationships							
1. Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships							
A. Describe and use geometric relationships							
solve problems involving angle relationships (supplementary, complementary angles) and Pythagorean Theorem					Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Naming and Measuring Angles		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Defining Complementary & Supplementary Angles		
					Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Recognizing Congruent Angles		
					Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Sides		
					Module: Fundamentals of Geometry Unit: Triangles Session: Exploring the Area of a Triangle		
					Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Angles		
					Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Exploring the Pythagorean Theorem		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
B. Apply geometric relationships							
apply geometric properties and relationships, such as similarity, to solve multi-step problems in 2 dimensions					Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Naming and Measuring Angles		
					Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Defining Complementary & Supplementary Angles		
					Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Recognizing Congruent Angles		
					Module: Ratio & Proportion Unit: Similar Polygons Session: Defining Similarity		
					Module: Ratio & Proportion Unit: Similar Polygons Session: Identifying Equivalent Ratios		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Ratio & Proportion Unit: Similar Polygons Session: Setting up & Solving Proportions in Similar Polygons		
C. Compose and decompose shapes							
2. Specify locations and describe spatial relationships using coordinate geometry and other representational systems							
A. Use coordinate systems							
solve problems related to 2-dimensional objects by finding the distance on a Cartesian plane						Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Graphing Ordered Pairs	
						Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Defining Slope	

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
						Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Finding x- and y-Intercepts	
						Module: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Slope-Intercept Equation of a Line	
						Module: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Point-Slope Equation of a Line	
						Module: Linear Functions and Equations Unit: Introduction to Functions Session: Relations and Functions	
						Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Finding the Point of Intersection	
						Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Graphing Parallel & Perpendicular Lines	

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
3. Apply transformations and use symmetry to analyze mathematical situations							
A. Use transformations on objects							
represent translations, reflections, rotations, and dilations of objects in the coordinate plane							
B. Use transformations on function							
translate and reflect linear functions					Module: Ratio & Proportion Unit: Similar Polygons Session: Defining Similarity		
					Module: Ratio & Proportion Unit: Similar Polygons Session: Identifying Equivalent Ratios		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Ratio & Proportion Unit: Similar Polygons Session: Setting up & Solving Proportions in Similar Polygons		
C. Use symmetry							
4. Use visualization, spatial reasoning and geometric modeling to solve problems							
A. Recognize and draw three-dimensional representations							
draw and use vertex-edge graphs or networks to find optimal solutions							
B. Draw and use visual models							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
draw or use visual models to represent and solve problems					Module: Fundamentals of Geometry Unit: Triangles Session: Exploring the Area of a Triangle	Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Finding the Point of Intersection	Module: Quadratic Functions & Equations Unit: Graphing Quadratic Functions & Equations Session: Graphing Parabolas
					Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Angles	Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Graphing Parallel & Perpendicular Lines	Module: Quadratic Functions & Equations Unit: Graphing Quadratic Functions & Equations Session: Analyzing Properties of Parabolas
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume of a Right Triangular Prism		Module: Quadratic Functions & Equations Unit: Graphing Quadratic Functions & Equations Session: Solving Quadratic Equations by Graphing
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Surface Area of a Right Triangular Prism		
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume & Surface Area of a Right Cylinder		
Measurement							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
1. Understand measurable attributes of objects and the units, systems and processes of measurement							
A. Determine unit of measurement							
identify and justify appropriate units of measure for velocity							
B. Identify equivalent measures							
C. Tell and use units of time							
D. Count and compute money							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
2. Apply appropriate techniques, tools and formulas to determine measurements							
A. Use standard or non-standard measurement							
B. Use angle measurement							
solve problems of angle measure, including those involving triangles or other polygons					Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Naming and Measuring Angles		
					Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Defining Complementary & Supplementary Angles		
					Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Recognizing Congruent Angles		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Angles		
					Module: Ratio & Proportion Unit: Direct & Inverse Variation Session: Exploring & Solving Direct Variation Problems		
C. Apply geometric measurements							
determine the surface area, and volume of geometric figures, including cones, spheres, and cylinders					Module: Essentials of Algebra Unit: Algebra Fundamentals Session: Introducing Variables	Module: The Language of Algebra Unit: Linear Equations in One Variable Session: Applying Inverse Operations	
					Module: Essentials of Algebra Unit: Algebra Fundamentals Session: Replacing Variables in a Formula		
					Module: Essentials of Algebra Unit: Solving Literal Equations Session: Identifying the Variables in a Given Formula		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume of a Right Triangular Prism		
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Surface Area of a Right Triangular Prism		
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume & Surface Area of a Right Cylinder		
D. Analyze precision							
analyze effects of computation on precision							
E. Use relationships within a measurement system							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
use unit analysis to solve problems involving rates							
Data and Probability							
1. Formulate questions that can be addressed with data and collect, organize and display relevant data to answer them							
A. Formulate questions							
formulate questions, design studies and collect data about a characteristic					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Line Graphs		Module: Describing Data Unit: Graphical Displays Session: Stem-&-Leaf Plots & Box Plots
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Bar Graphs		Module: Describing Data Unit: Graphical Displays Session: Scatter Plots & Linear Best-Fit Graphs

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Interpreting Pie Charts		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Creating & Interpreting a Frequency Table		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Defining a Histogram		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Exploring Cumulative Frequency Graphs		
B. Classify and organize data							
C. Represent and interpret data							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
select, create and use appropriate graphical representation of data					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Line Graphs		Module: Describing Data Unit: Graphical Displays Session: Stem-&-Leaf Plots & Box Plots
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Bar Graphs		Module: Describing Data Unit: Graphical Displays Session: Scatter Plots & Linear Best-Fit Graphs
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Interpreting Pie Charts		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Creating & Interpreting a Frequency Table		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Defining a Histogram		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Exploring Cumulative Frequency Graphs		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
2. Select and use appropriate statistical methods to analyze data							
A. Describe and analyze data							
apply statistical concepts to solve problems					Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Defining the Mean & Median	Module: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Slope-Intercept Equation of a Line	Module: Quadratic Functions & Equations Unit: Graphing Quadratic Functions & Equations Session: Graphing Parabolas
					Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Defining the Mode	Module: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Point-Slope Equation of a Line	Module: Quadratic Functions & Equations Unit: Graphing Quadratic Functions & Equations Session: Analyzing Properties of Parabolas
					Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Calculating the Mean, Median, & Mode	Module: Linear Functions and Equations Unit: Introduction to Functions Session: Relations and Functions	Module: Quadratic Functions & Equations Unit: Graphing Quadratic Functions & Equations Session: Solving Quadratic Equations by Graphing
						Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Finding the Point of Intersection	Module: Algebraic Expressions & Functions Unit: Radical Equations & Functions Session: Solving Radical Equations

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
						Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Graphing Parallel & Perpendicular Lines	Module: Algebraic Expressions & Functions Unit: Radical Equations & Functions Session: The Inverse of the Square Root Function
							Module: Algebraic Expressions & Functions Unit: Rational Expressions, Equations & Functions Session: Rational Functions
							Module: Describing Data Unit: Graphical Displays Session: Stem-&-Leaf Plots & Box Plots
							Module: Describing Data Unit: Graphical Displays Session: Scatter Plots & Linear Best-Fit Graphs
B. Compare data representations							
given one-variable quantitative data, display the distribution and describe its shape							Module: Describing Data Unit: Graphical Displays Session: Stem-&-Leaf Plots & Box Plots

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
							Module: Describing Data Unit: Graphical Displays Session: Scatter Plots & Linear Best-Fit Graphs
C. Represent data algebraically							
given a scatterplot, determine an equation for a line of best fit							Module: Describing Data Unit: Graphical Displays Session: Scatter Plots & Linear Best-Fit Graphs
3. Develop and evaluate inferences and predictions that are based on data							
A. Develop and evaluate inferences							
make conjectures about possible relationships between 2 characteristics of a sample on the basis of scatter plots of the data and approximate line of fit							Module: Describing Data Unit: Graphical Displays Session: Scatter Plots & Linear Best-Fit Graphs

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
B. Analyze basic statistical techniques							
4. Understand and apply basic concepts of probability							
A. Apply basic concepts of probability							
construct sample spaces and distributions					Module: Fundamentals of Probability Unit: Probability of Combined Events Session: Calculating the Probability of Independent Events		
					Module: Fundamentals of Probability Unit: Probability of Combined Events Session: Determining the Sample Space of an Experiment		
					Module: Fundamentals of Probability Unit: Probability of Combined Events Session: Calculating the Probability of Mutually Exclusive Events		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
B. Use and describe compound events							
Tenth Grade							
Number and Operation							
1. Understand numbers, ways of representing numbers, relationships among numbers and number systems							
A. Read, write and compare numbers							
B. Represent and use rational numbers							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
use real numbers to solve problems							
C. Compose and Decompose numbers							
use a variety of representations to demonstrate an understanding of very large and very small numbers							
D. Classify and describe numeric relationships							
2. Understand meanings of operations and how they relate to one another							
A. Represent Operations							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
B. Describe effects of operations							
C. Apply properties of operations							
apply properties of exponents to simplify expressions or solve equations							
D. Apply operations on real and complex numbers							
apply operations to real numbers, using mental computation or paper-and-pencil calculations for simple cases and technology for more complicated cases							
3. Compute fluently and make reasonable estimates							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Describe or represent mental strategies							
B. Develop and demonstrate fluency							
C. Compute problems							
D. Estimate and justify solutions							
judge the reasonableness of numerical computations and their results							
E. Use proportional reasoning							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
solve problems involving proportions							
Algebraic Relationships							
1. Understand patterns, relations and functions							
A. Recognize and extend patterns							
B. Create and analyze patterns							
generalize patterns using explicity or recursively defined functions							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
C. Classify objects and representations							
compare and contrast various forms of representations of patterns							
D. Identify and compare functions							
understand and compare the properties of linear, exponential and quadratic functions (include domain and range)							
E. Describe the effects of parameter changes							
describe the effects of parameter changes on quadratic and exponential functions							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
2. Represent and analyze mathematical situations and structures using algebraic symbols							
A. Represent mathematical situations							
use symbolic algebra to represent and solve problems that involve quadratic relationships, including recursive relationships							
B. Describe and use mathematical manipulation							
describe and use algebraic manipulations, including factoring and rules of integer exponents							
C. Utilize equivalent forms							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
use and solve equivalent forms of equations and inequalities (piece-wise and quadratic)							Module: Quadratic Functions & Equations Unit: Graphing Quadratic Functions & Equations Session: Graphing Parabolas
							Module: Quadratic Functions & Equations Unit: Graphing Quadratic Functions & Equations Session: Analyzing Properties of Parabolas
							Module: Quadratic Functions & Equations Unit: Graphing Quadratic Functions & Equations Session: Solving Quadratic Equations by Graphing
							Module: Quadratic Functions & Equations Unit: Solving Quadratic Equations Using Algebra Session: Factoring & the Zero Product Theorem
							Module: Quadratic Functions & Equations Unit: Solving Quadratic Equations Using Algebra Session: The Square Root Method & Completing the Square
							Module: Quadratic Functions & Equations Unit: Solving Quadratic Equations Using Algebra Session: The Quadratic Formula

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
D. Utilize systems							
use and solve systems of linear equations with 2 variables						Module: Linear Inequalities Unit: Inequalities in Two Variables Session: Graphing Solutions on a Rectangular Coordinate Plane	
						Module: Linear Inequalities Unit: Inequalities in Two Variables Session: Solving Systems by Graphing	
3. Use mathematical models to represent and understand quantitative relationships							
A. Use mathematical models							
identify quantitative relationships and determine the type(s) of functions that might model the situation to solve the problem							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
4. Analyze change in various contexts							
A. Analyze change							
analyze quadratic functions by investigating rates of change, intercepts and zeros							
Geometric and Spatial Relationships							
1. Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships							
A. Describe and use geometric relationships							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
use inductive and deductive reasoning to establish the validity of geometric conjectures, proved theorems and critique arguments made by others							
B. Apply geometric relationships							
apply relationships among surface areas and among volumes of similar objects							
C. Compose and decompose shapes							
2. Specify locations and describe spatial relationships using coordinate geometry and other representational systems							
A. Use coordinate systems							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
make conjectures and solve problems involving 2-dimensional objects represented with Cartesian coordinates							
3. Apply transformations and use symmetry to analyze mathematical situations							
A. Use transformations on objects							
use and apply constructions to represent translations, reflections, rotations, and dilations of objects							
B. Use transformations on function							
translate, dilate and reflect quadratic and exponential functions							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
C. Use symmetry							
identify types of symmetries of 2- and 3-dimensional figures							
4. Use visualization, spatial reasoning and geometric modeling to solve problems							
A. Recognize and draw three-dimensional representations							
draw representations of 3-dimensional geometric objects using a variety of tools							
B. Draw and use visual models							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
draw or use visual models to represent and solve problems							
Measurement							
1. Understand measurable attributes of objects and the units, systems and processes of measurement							
A. Determine unit of measurement							
B. Identify equivalent measures							
C. Tell and use units of time							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
D. Count and compute money							
2. Apply appropriate techniques, tools and formulas to determine measurements							
A. Use standard or non-standard measurement							
B. Use angle measurement							
solve problems of angle measure of parallel lines cut by a transversal							
C. Apply geometric measurements							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
determine the surface area, and volume of geometric figures, including cones, spheres, and cylinders							
D. Analyze precision							
analyze effects of computation on precision							
E. Use relationships within a measurement system							
Data and Probability							
1. Formulate questions that can be addressed with data and collect, organize and display relevant data to answer them							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Formulate questions							
formulate questions, design studies and collect data about a characteristic							
B. Classify and organize data							
C. Represent and interpret data							
select, create and use appropriate graphical representation of data							
2. Select and use appropriate statistical methods to analyze data							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
A. Describe and analyze data							
apply statistical concepts to solve problems and distinguish between a statistic and a parameter							
B. Compare data representations							
given one-variable quantitative data, display the distribution and describe its shape							
C. Represent data algebraically							
display and analyze bivariate data where one variable is categorical and the other is numerical							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
3. Develop and evaluate inferences and predictions that are based on data							
A. Develop and evaluate inferences							
describe how sample statistics reflect the values of population parameters and use sampling distributions as the basis for informal inference							
B. Analyze basic statistical techniques							
4. Understand and apply basic concepts of probability							
A. Apply basic concepts of probability							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
describe the concepts of sample space and probability distribution							
B. Use and describe compound events							
use and describe the concepts of conditional probability and independent events							