



DESTINATION Math.

Correlation of Destination Math[®] Courseware
to Oklahoma State Standards
December - 2004



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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
Standard 1: Patterns - The student will sort and classify objects and analyze simple patterns.							
1. Sort and group objects into a set and explain verbally what the objects have in common (e.g., color, size, shape).	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						

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	Module: Number Sense Unit: Numbers From 1 to 10 Session: Creating representations of the numbers from 5 to 10						
	Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes						
2. Explain verbally and extend simple patterns	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						

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	Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes						
Standard 2: Number Sense - The student will understand the relationship between numbers and quantities.							
1. Compare a group or set to another group, set or numerical quantity and verbally explain which has more, less or equivalent quantities.	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						
2. Pair and count objects using one-to-one correspondence (e.g., one napkin for each child at snack time).	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 representations of the numbers from 5 to 10						

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3. Count forward to twenty and backward from ten.	Module: Number Sense Unit: Numbers From 1 to 10 Session: One Fewer Than and Zero						
	Module: Number Sense Unit: Numbers from 1 to 5 Session: Counting from 1 to 5						
	Module: Number Sense Unit: Numbers From 1 to 10 Session: Counting from 5 to 10						
	Module: Number Sense Unit: Numbers to 100 Session: Counting from 10 to 20						
4. Count objects in a set one-by-one from one through ten.	Module: Number Sense Unit: Numbers from 1 to 5 Session: Creating Sets of 1 to 5						
	Module: Number Sense Unit: Numbers From 1 to 10 Session: Creating sets of 5 to 10						

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5. Identify and create sets of objects zero through ten.	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 representations of the numbers from 5 to 10						
6. Identify and write numerals zero through ten, in and out of sequence. Children may still be reversing some numerals.	Module: Number Sense Unit: Numbers from 1 to 5 Session: Counting from 1 to 5						
	Module: Number Sense Unit: Numbers From 1 to 10 Session: Counting from 5 to 10						
7. Identify the ordinal position (first through fifth) of objects.	Module: Number Sense Unit: Numbers from 1 to 5 Session: Creating Representations of the Numbers from 1 to 5						
8. Combine and remove objects from sets and verbally describe the result (e.g., adding objects to a set makes the set larger, subtracting objects from a set makes the set smaller).	Module: Number Sense Unit: Numbers from 1 to 5 Session: Creating Sets of 1 to 5						

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	Module: Number Sense Unit: Numbers From 1 to 10 Session: Creating sets of 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						
Standard 3: Geometry and Spatial Sense - The student will identify common geometric shapes and explore the relationship of objects in the environment.							
1. Identify, compare and draw basic two-dimensional geometric shapes (e.g., circle, square, triangle, rectangle).	Module: Geometry and Measurement Unit: Geometry Session: Triangles and Rectangles						
	Module: Geometry and Measurement Unit: Geometry Session: Three-dimensional shapes						

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2. Model and use words indicating relative position or direction (e.g., students describe the relationships between self and objects in space using on, above, below, beside, under, on top of, behind, and over).							
Standard 4: Measurement - The student will explore the concepts of nonstandard and standard measurement.							
1. Measure objects using nonstandard units of measurement (e.g., pencil, paper clip, block).	Module: Geometry and Measurement Unit: Measurement Session: Length						
2. Compare objects according to observable attributes (e.g., long, longer, longest; short, shorter, shortest; big, bigger, biggest; small, smaller, smallest; small, medium, large).	Module: Geometry and Measurement Unit: Measurement Session: Length						
3. Compare and order objects in graduated order (e.g., shortest to tallest, thinnest to thickest).	Module: Geometry and Measurement Unit: Measurement Session: Length						

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4. Identify the appropriate instrument used to measure length (ruler), weight (scale), time (clock: digital and analog; calendar: day, month, year, season), and temperature (thermometer).	Module: Geometry and Measurement Unit: Measurement Session: Length						
	Module: Geometry and Measurement Unit: Measurement Session: Weight						
	Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time						
5. Tell time on digital and analog clocks to the hour.	Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time						
6. Identify the days of the week and months of the year.	Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time						

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7. Identify the coins penny, nickel, dime and quarter.	Module: Geometry and Measurement Unit: Measurement Session: Money						
Standard 5: Data Analysis - The student will collect and analyze data in a group setting.							
1. Collect and analyze information about objects and events in the environment.							
2. Create and verbally explain a data display or graph (e.g., real object graph, pictorial graphs).	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						
Standard 1: Patterns - The student will use a variety of problem-solving approaches to model, describe and extend patterns.							

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1. Describe, extend and create a variety of patterns using concrete objects (e.g., sort a bag of objects by attributes and orally communicate the pattern for each grouping).	Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes						
2. Describe and extend number patterns in a variety of situations (e.g., addition charts skip counting, calendars).	Module: Algebraic Thinking Unit: Patterns and Displays Session: Number Patterns						
	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						
	Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time						
	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						

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Standard 2: Number Sense - The student will read, write and model numbers and number relationships to 100.							
*1. Use concrete models of tens and ones to develop the concept of place value.		Module: Number Sense Unit: Numbers to 999 Session: Place Value: Tens and Ones					
2. Compare and Order Objects							
a. Compare objects by size and quantity (e.g., more than, less than, equal to).	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						

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b. Use ordinal numbers first through tenth to order objects.	Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time						
3. Read and write numerals to 100.	Module: Number Sense Unit: Numbers from 1 to 5 Session: Creating Sets of 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 to 100 Session: Counting from 10 to 20						
	Module: Number Sense Unit: Numbers to 100 Session: Counting from 20 to 50						

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	Module: Number Sense Unit: Numbers to 100 Session: Counting from 50 to 100						
	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						
4. Count as many as 100 objects by ones, twos, fives, and tens.	Module: Number Sense Unit: Numbers from 1 to 5 Session: Creating Sets of 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						

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	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: Numbers to 100 Session: Skip-Counting by Tens and Fives						
	Module: Number Sense Unit: Numbers to 100 Session: Skip Counting by Twos						
*5. Investigate concepts of fractional parts (e.g., halves, thirds, fourths).		Module: Operations with Numbers Unit: Division Session: Fractional Parts					

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Standard 3: Number Operations and Computation - The student will use models to construct addition and subtraction facts with whole numbers through 10.							
1. Develop and apply the concepts of addition and subtraction.	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						

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	Module: Addition and Subtraction Unit: Subtraction Session: Differences Within 10						
*a. Use models to construct addition and subtraction facts through 10 (e.g., counters, cubes).	Module: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10						
	Module: Addition and Subtraction Unit: Addition Session: Comparing within 10						
	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: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10						

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	Module: Addition and Subtraction Unit: Subtraction Session: Differences Within 10						
b. Perform addition by joining sets of objects and subtraction by separating and by comparing sets of objects.	Module: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10						
	Module: Addition and Subtraction Unit: Addition Session: Comparing within 10						
	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: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10						

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	Module: Addition and Subtraction Unit: Subtraction Session: Differences Within 10						
	Module: Number Sense Unit: Comparing and Ordering Session: More Than, Less Than, or the Same						
c. Demonstrate fluency with basic addition and subtraction facts through 10.	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: Subtraction Session: Differences Within 10						
*d. Recognize and apply the commutative and identity properties of addition using models and manipulatives to develop computational skills (e.g., $2 + 4 = 4 + 2$, $3 + 0 = 3$).	Module: Algebraic Thinking Unit: Patterns and Displays Session: Number Patterns						

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2. Write addition and subtraction number sentences for problem-solving situations.							
3. Acquire strategies for making computations (e.g., use estimation, number sense to judge reasonableness, counting on).							
Standard 4: Geometry and Measurement - The student will use geometric properties and relationships to recognize and describe shapes and use measurement skills to tell time, identify money and develop calendar concepts.							
1. Geometric Properties and Relationships							
a. Sort and identify congruent shapes.	Module: Geometry and Measurement Unit: Geometry Session: Triangles and Rectangles						

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	Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes						
b. Identify two-dimensional geometric shapes and objects in everyday situations (e.g., the face of a round clock is a circle, a desktop is a rectangle).	Module: Geometry and Measurement Unit: Geometry Session: Triangles and Rectangles						
	Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes						
c. Use language to describe relationships of objects in space (e.g., above, below, behind, between).							
2. Measurement							
a. Tell time on digital and analog clocks to the hour and half-hour.	Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time						

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b. Identify and name the value of pennies, dimes, nickels, and quarters.	Module: Geometry and Measurement Unit: Measurement Session: Money						
c. Use the calendar to develop the concepts of days, weeks, and months.	Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time						
Standard 5: Data Analysis - The student will demonstrate an understanding of data collection and display.							
1. Organize, describe, and display data using concrete objects, pictures, grids, and numbers.	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						
	Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes						
	Module: Algebraic Thinking Unit: Patterns and Displays Session: Number Patterns						

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2. Formulate and solve problems that involve collecting and analyzing data common to children's lives (e.g., color of shoes, numbers of pets, favorite foods).	Module: Algebraic Thinking Unit: Patterns and Displays Session: Number Patterns						
	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						
	Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes						
Standard 1: Patterns - The student will use a variety of problem-solving approaches to extend and create patterns.							
1. Describe, extend, and create patterns using symbols, shapes or designs (e.g., repeating and growing patterns made up of sets of shapes or designs, create patterns by combining different shapes and taking them apart).		Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties					

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	Module: Algebraic Thinking Unit: Patterns and Displays Session: Number Patterns						
2. Formulate and record generalizations about number patterns in a variety of situations (e.g., addition and subtraction patterns, build a table showing the cost of one pencil at 10 cents, 2 pencils at 20 cents)	Module: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10						
	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: Algebraic Thinking Unit: Patterns and Displays Session: Number Patterns						

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		Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties					
		Module: Geometry and Measurement Unit: Measurement Session: Money					
Standard 2: Number Sense - The student will use numbers and number relationships to acquire basic facts.							
*1. Place Value							
a. Use concrete models of hundreds, tens, and ones to develop the concepts of place value.		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					

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b. Demonstrate (using concrete objects, pictures, and numerical symbols) fractional parts including halves, thirds, and fourths.		Module: Operations with Numbers Unit: Division Session: Fractional Parts					
2. Reading and Writing Numbers							
a. Link place value concepts to the reading and writing of numbers (e.g., base-10 blocks).		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					
b. Represent a number in a variety of ways (e.g., write the calendar day in different ways, write 15 as 8 + 7, write 25 as 2 tens + 5 ones or as 1 ten + 15 ones).	Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time						

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		Module: Number Sense Unit: Numbers to 999 Session: Place Value: Hundreds, Tens, and Ones					
c. Write a number sentence to compare numbers less than 100 (e.g., 5 is more than 2, 3 is less than 7, page 51 comes after 50, and 51 is between 50 and 60).		Module: Operations with Numbers Unit: Addition and Subtraction Session: Sums Less than 100					
		Module: Number Sense Unit: Numbers to 9,999 Session: Comparing and Ordering					
3. Develop and use strategies of estimation (e.g., compose, decompose and regroup numbers, use knowledge of 10 to estimate quantities and sums [two numbers less than 10 can not add up to more than 20], use body parts to estimate measurements).	Module: Geometry and Measurement Unit: Measurement Session: Length						
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Sums Less than 100					

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4. Determine whether a number is odd or even.	Module: Number Sense Unit: Numbers to 100 Session: Skip Counting by Twos						
Standard 3: Number Operations and Computation - The student will compute with whole numbers less than 100.							
1. Develop and apply the concepts of addition and subtraction.							
a. Demonstrate fluency with basic addition and subtraction facts and fact families to 18.	Module: Addition and Subtraction Unit: Addition Session: Sums within 20						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 20						
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Sums Less than 100					

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		Module: Operations with Numbers Unit: Addition and Subtraction Session: Differences within 100					
b. Solve two-digit addition and subtraction problems with and without regrouping using a variety of techniques (e.g., concrete, paper and pencil, mental math).		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					
*c. Develop operation sense by applying the associative property of addition (e.g., $3 + (2 + 1) = (3 + 2) + 1$).		Module: Operations with Numbers Unit: Addition and Subtraction Session: Sums Less than 100					
d. Describe the relationship between addition and subtraction (e.g., addition and subtraction are inverse operations).		Module: Operations with Numbers Unit: Addition and Subtraction Session: Differences within 100					

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2. Use mental strategies (or decomposition strategies) for addition and subtraction (e.g., make a group of 10 objects and 2 objects from a group of 7 objects and 5 objects).		Module: Operations with Numbers Unit: Addition and Subtraction Session: Sums Less than 100					
		Module: Operations with Numbers Unit: Multiplication Session: Repeated Addition and Arrays					
3. Complete addition number sentences with a missing addend and use to solve everyday problems.		Module: Operations with Numbers Unit: Addition and Subtraction Session: Sums Less than 100					
	Module: Addition and Subtraction Unit: Addition Session: Sums within 20, with 10 as one addend						
	Module: Addition and Subtraction Unit: Addition Session: Comparing within 10						

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Standard 4: Geometry and Measurement - The student will use geometric properties and relationships to recognize and describe shapes and use appropriate units of measure in a variety of situations.							
1. Geometric Properties and Relationships							
a. Sort and classify symmetric and congruent figures.	Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes						
	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						
b. Identify two-dimensional geometric shapes in everyday situations (e.g., a stop sign is an octagon).	Module: Geometry and Measurement Unit: Geometry Session: Triangles and Rectangles						

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	Module: Geometry and Measurement Unit: Geometry Session: Three-dimensional shapes						
2. Measurement							
a. Measure objects with nonstandard and standard units (e.g., use a human foot [nonstandard] then a ruler [standard] to measure length to the nearest inch).	Module: Geometry and Measurement Unit: Measurement Session: Length						
b. Select and use appropriate units of measurement in problem solving and everyday situations.	Module: Geometry and Measurement Unit: Measurement Session: Length						
		Module: Geometry and Measurement Unit: Measurement Session: Temperature					
3. Time and Money							

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a. Tell time on digital and analog clocks to the quarter-hour.		Module: Geometry and Measurement Unit: Measurement Session:Time					
b. Identify and count money; connect coins and bills with place value.		Module: Geometry and Measurement Unit: Measurement Session:Money					
Standard 5: Data Analysis - The student will demonstrate an understanding of data collection, display and interpretation.							
1. Collect, sort, organize, and display data in charts, bar graphs, and tables (e.g., collect data on teeth lost and display results in a chart).	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						
2. Summarize and interpret data in charts, bar graphs, and tables.	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						
*3. Make predictions and estimates to describe data (e.g., predict what data on teeth lost might look like for younger children and/or older children).	Module: Algebraic Thinking Unit: Patterns and Displays Session: Number 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
	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						
Standard 1: Patterns and Algebraic Reasoning - The student will use a variety of problem-solving approaches to extend and create patterns.							
1. Describe (orally or in written form), create, extend and predict patterns using numbers (e.g., 3, 6, 9, 12 . . . , use a function machine to generate input and output values for a table, show multiplication patterns on a hundreds chart).		Module: Operations with Numbers Unit: Multiplication Session: Repeated Addition and Arrays					
2. Analyze tables to formulate generalizations about patterns in a variety of situations (e.g., list the multiples of 5 in a table to show that multiples of 5 have a 0 or 5 in the ones place; given pairs of numbers with a common relationship, determine the rule and generate additional pairs with the same relationship).	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						
	Module: Number Sense Unit: Numbers to 100 Session: Skip-Counting by Tens and Fives						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
Standard 2: Number Sense - The student will use numbers and number relationships to acquire basic facts.							
1. Place Value							
a. Model the concept of place value through 4 digits (e.g., base-10 blocks, bundles of 10s, place value mats).		Module: Number Sense Unit: Numbers to 9,999 Session:Place Value: Thousands, Hundreds, Tens, and Ones					
b. Read, model and write whole numbers up to 4 digits (e.g., base-10 blocks, expanded form).		Module: Number Sense Unit: Numbers to 9,999 Session:Place Value: Thousands, Hundreds, Tens, and Ones					
		Module: Number Sense Unit: Numbers to 9,999 Session:Place Value: Thousands, Hundreds, Tens, and Ones					
2. Whole Numbers and 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
a. Compare and order whole numbers up to 4 digits.		Module: Number Sense Unit: Numbers to 9,999 Session:Place Value: Thousands, Hundreds, Tens, and Ones					
		Module: Number Sense Unit: Numbers to 9,999 Session:Comparing and Ordering					
b. Compare and order fractions including halves, thirds and fourths using a model (e.g., fraction circles, pictures, egg cartons, fraction strips).		Module: Operations with Numbers Unit: Division Session:Fractional Parts					
Standard 3: Number Operations and Computation - The student will estimate and compute with whole numbers.							
1. Estimate, find the sum and difference, with and without regrouping, of 3- and 4-digit numbers to solve application problems.		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					

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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 Session: Differences within 100					
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Estimating and Finding Differences within 1,000					
2. Multiplication Concepts							
a. Demonstrate fluency with basic multiplication facts and fact families.		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
*b. Develop multiplication algorithms (e.g., use physical materials to show 4 groups of 3 objects, show multiplication as repeated addition).		Module: Operations with Numbers Unit: Multiplication Session: Repeated Addition and Arrays					
		Module: Operations with Numbers Unit: Multiplication Session: Finding Products Less than 100					
		Module: Operations with Numbers Unit: Multiplication Session: Skip Counting to Show Multiplication					
c. Estimate the product of 2-digit numbers by rounding to the nearest multiple of 10 to solve application problems.		Module: Operations with Numbers Unit: Multiplication Session: Finding Products Less than 100					
*d. Recognize and apply the commutative and identity properties of multiplication using models and manipulatives to develop computational skills (e.g., $3 \cdot 5 = 5 \cdot 3$, $7 \cdot 1 = 7$).		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
3. Solve problems involving money that require addition and subtraction.		Module: Geometry and Measurement Unit: Measurement Session: Money					
Standard 4: Geometry and Measurement - The student will use geometric properties and relationships to recognize and describe shapes and use customary and metric measurements to solve problems.							
1. Spatial Reasoning and Coordinate Locations							
a. Describe and compare two- and three-dimensional shapes (e.g., count the edges and faces of a cube, combine or divide basic shapes to form new shapes, identify and draw congruent shapes).	Module: Geometry and Measurement Unit: Geometry Session: Three-dimensional shapes						
		Module: Geometry and Measurement Unit: Geometry Session: Area					

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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 locations on a grid with ordered pairs (e.g., give the location of a ship on a grid by selecting D, 1).							
2. Measurement							
a. Solve problems with customary units involving length using half-inch and quarter-inch measurements and weight using pound and ounce.	Module: Geometry and Measurement Unit: Measurement Session: Length						
	Module: Geometry and Measurement Unit: Measurement Session: Weight						
b. Solve problems with metric units involving length using meter and centimeter and mass using gram and kilogram.	Module: Geometry and Measurement Unit: Measurement Session: Length						
	Module: Geometry and Measurement Unit: Measurement Session: Weight						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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: Geometry Session:Area					
		Module: Geometry and Measurement Unit: Geometry Session:Volume					
c. Use manipulatives to develop the concept of perimeter and area (e.g., cover a shape with pattern blocks to find area).		Module: Geometry and Measurement Unit: Geometry Session:Area					
*3. Develop and use strategies to estimate measurements (e.g., use parts of the body as benchmarks for measuring length).	Module: Geometry and Measurement Unit: Measurement Session: Length						
4. Tell time on digital and analog clocks to 5 minutes and use information to solve problems involving time and temperature (e.g., read a thermometer).		Module: Geometry and Measurement Unit: Measurement Session:Temperature					
		Module: Geometry and Measurement Unit: Measurement Session: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
Standard 5: Data Analysis and Probability - The student will demonstrate an understanding of data collection, display and interpretation.							
1. Data Analysis							
*a. Pose questions, collect, record, and interpret data to help answer questions (e.g., Which was the most popular booth at our carnival?).	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						
			Module: Data Analysis and Probability Unit: Modelling and Displaying Events Session: Displaying and Analysing Data				
b. Read graphs and charts; identify the main idea, draw conclusions, make predictions based on the data (e.g., predict how many children will bring their lunch based on a menu).	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
			Module: Data Analysis and Probability Unit: Modelling and Displaying Events Session: Displaying and Analysing Data				
c. Construct a bar graph or pictograph with labels and a title from a set of data.	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						
2. Probability							
a. Describe the probability (more, less, or equally likely) of chance events.			Module: Data Analysis and Probability Unit: Modelling and Displaying Events Session: Displaying and Analysing Data				
			Module: Data Analysis and Probability Unit: Modelling and Displaying Events Session: Looking at Chance				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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. List arrangements (permutations) and combinations of up to three items (e.g., possible ways to arrange scoops of chocolate, strawberry and vanilla ice cream on a cone).			Module: Data Analysis and Probability Unit: Modelling and Displaying Events Session: Displaying and Analysing Data				
			Module: Data Analysis and Probability Unit: Modelling and Displaying Events Session: Looking at Chance				
Standard 1: Patterns and Algebraic Reasoning - The student will use a variety of problem-solving approaches to analyze, extend and create patterns.							
1. Discover, describe, extend, and create a wide variety of patterns using tables, graphs, rules, and models (e.g., use 1-inch tiles to demonstrate that doubling the length of the side of a square more than doubles the area, explore the characteristics of odd and even numbers, extend patterns of geometric shapes).			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Finding Factors				
2. Elementary Function Concepts							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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 a variety of techniques to generalize number patterns (e.g., use function machines and "t-tables" to demonstrate "What is the rule?").			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Whole Numbers to One Million				
b. Solve simple open sentences involving operations on whole numbers (with a variable, e.g., $a + 17 = 23$).							
Standard 2: Number Sense - The student will use numbers and number relationships to acquire basic number facts.							
1. Place Value							
a. Apply the concept of place value through 6 digits (e.g., write numbers in expanded form, play a trading game involving place value).			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Whole Numbers to One Million				
b. Read, write and rename whole numbers through 6 digits and decimal numbers to the hundredths (e.g., money, numerals to words).			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Whole Numbers to One Million				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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				
2. Compare and order whole numbers and decimals to the hundredths place (e.g., pictures of shaded regions of two-dimensional figures, use $>$, $<$, $=$ symbols).			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Ordering and Rounding Whole Numbers				
			Module: Decimals Unit: Introduction Session: Tenths, Hundredths, and Thousandths				
			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Negative Whole Numbers				
3. Fractions							
a. Use 0, $\frac{1}{2}$, and 1 or 0, 0.5, and 1, as benchmarks and place additional fractions and decimals on a number line (e.g., $\frac{1}{3}$, $\frac{2}{3}$, 0.7, 0.4).			Module: Fractions Unit: Proper and Improper Fractions Session: Proper Fractions and 1				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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 physical and pictorial models of equivalent and nonequivalent fractional parts to be compared, added or subtracted (e.g., egg circles, and squares).			Module: Fractions Unit: Proper and Improper Fractions Session: Equivalent Fractions				
			Module: Fractions Unit: Proper and Improper Fractions Session: Improper Fractions and Mixed Numbers				
			Module: Fractions Unit: Addition and Subtraction Session: Sums Involving Like Denominators				
Standard 3: Number Operations and Computation - The student will estimate and compute with whole numbers.							
1. Estimate and find the product of 2- and 3-digit numbers to solve application problems.			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: Decimals Unit: Multiplication and Division Session: Multiplying Decimals				
2. Division Concepts							
a. Demonstrate fluency with basic division facts and fact families.		Module: Operations with Numbers Unit: Division Session: Dividing by a 1-digit Number					
*b. Develop division algorithms (e.g., use physical materials to show 12 objects arranged in 3 groups, show division as repeated subtraction and as the inverse of multiplication).			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: Introduction to Long Division				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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. Estimate and find the quotient (with and without remainders) with a 1-digit divisor and a 2- or 3-digit dividend to solve application problems.			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division				
3. Apply a variety of estimation and mental math techniques to simplify computations (e.g., use rounding to estimate $82 - 58$ is about $80 - 60$ or 20 , use $30 \cdot 5$ to find the product of $300 \cdot 5$).			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Ordering and Rounding Whole Numbers				
*4. Develop operation sense by applying the associative property of multiplication (e.g., $6 \cdot (2 \cdot 3) = (6 \cdot 2) \cdot 3$).			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers				
Standard 4: Geometry and Measurement - The student will use geometric properties and relationships to analyze shapes and use standard units of customary and metric measurements 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
1. Basic Characteristics of Lines and Angles			Module: Geometry Unit: Measurement Session: Lines, Angles, and Circles				
			Module: Geometry Unit: Measurement Session: Rectangles and Squares				
a. Identify, draw, and construct models of intersecting, parallel, and perpendicular lines (e.g., use spaghetti, straws, toothpicks).			Module: Geometry Unit: Measurement Session: Rectangles and Squares				
b. Identify and compare angles equal to, less than, or greater than 90 degrees (e.g., use right angles to determine the approximate size of other angles; make a variety of angles using flexible straws and compare).			Module: Geometry Unit: Measurement Session: Lines, Angles, and Circles				
*2. Identify basic characteristics of the rectangular coordinate system and find the distance between horizontal and vertical lines of a rectangular coordinate system (e.g., the x-axis is the horizontal axis).			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
3. Spatial Reasoning							
a. Describe the effects on two- and three-dimensional objects when they slide (translate), flip (reflect), and turn (rotate) (e.g., tessellations).			Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations				
b. Predict and verify the effects of combining, subdividing, and changing two- and three-dimensional figures (e.g., folding paper, tiling, and rearranging pieces of solids).			Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations				
4. Measurement							
a. Establish benchmarks for customary and metric units and estimate the measures of a variety of objects and compare units (e.g., mass: the mass of a raisin is about 1 gram, length: the width of a finger is about 1 centimeter).		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
b. Select appropriate customary and metric units of measure to solve application problems involving length, weight, mass, and volume.		Module: Geometry and Measurement Unit: Geometry Session: Volume					
c. Solve application problems involving money, time and temperature (e.g., elapsed time).		Module: Geometry and Measurement Unit: Measurement Session: Time					
		Module: Geometry and Measurement Unit: Measurement Session: Temperature					
Standard 5: Data Analysis and Probability - The student will demonstrate an understanding of data collection, display and interpretation.							
1. Data Analysis							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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. Examine data displays such as tallies, tables, charts and graphs and use the observations to pose and answer questions (e.g., choose a table in social studies of population data and write problems).			Module: Data Analysis and Probability Unit: Modelling and Displaying Events Session: Displaying and Analysing Data				
b. Collect, organize and record data in tables and graphs (e.g., bar, pictograph, line plots).			Module: Data Analysis and Probability Unit: Modelling and Displaying Events Session: Displaying and Analysing Data				
*2. Investigate and record probabilities by experimenting with devices that generate random outcomes (e.g., coins, number cubes, spinners).			Module: Data Analysis and Probability Unit: Modelling and Displaying Events Session: Looking at Chance				
Standard 1: Patterns and Algebraic Reasoning - The student will use algebraic methods to describe patterns and solve problems in a variety of 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
1. Describe rules that produce patterns found in tables, graphs, and models, and use variables (e.g., boxes, letters, pawns, number cubes, or other symbols) to solve problems or to describe general rules in algebraic expression or equation form.			Module: Data Analysis and Probability Unit: Modelling and Displaying Events Session: Displaying and Analysing Data				
2. Use algebraic problem-solving techniques (e.g., use a balance to model an equation and show how subtracting a number from one side requires subtracting the same amount from the other side) to solve problems.					Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Solving Simple Equations		
Standard 2: Number Sense - The student will demonstrate an understanding of the basic concepts and properties of real numbers.							
1. Fractions, Decimals and Percents							
a. Solve problems using decimal numbers to the 1000ths place.			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
b. Compare, convert, and order common fractions and decimals to the 100ths place to solve problems.			Module: Decimals Unit: Introduction Session: Ordering and Rounding				
					Module: Ratio and Proportion Unit: Ratio Session: Expressing Ratios as Equivalent Fractions and Decimals		
c. Represent with models the connection between fractions, decimals, and percents and be able to convert from one representation to another (e.g., use 10 x 10 grids, base-10 blocks; limit fractions to halves, fourths, fifths, and tenths).				Module: Percents Unit: Essentials of Percents Session: Expressing Percents as Proper Fractions			
				Module: Percents Unit: Finding Percents of Quantities Session: Expressing Ratios as Percents			
d. Explain verbally with manipulatives and diagrams 25%, 50%, 75%; use these percents to solve problems and relate them to their corresponding fractions and decimals.				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
2. Basic Number Theory Concepts							
a. Apply the basic properties of arithmetic: commutative, associative, distributive, and identity (e.g., show $2(5 + 1) = (2 \cdot 5) + (2 \cdot 1)$, given $(5 + 1) + (5 + 1)$ regroup to show this equals $(5 + 5) + (1 + 1)$ concluding with $(2 \cdot 5) + (2 \cdot 1)$) to solve problems.			Module: Operations with Numbers Unit: Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums				
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers				
b. Identify and apply factors, multiples, prime, and composite numbers in a variety of problem-solving situations (e.g., build rectangular arrays for numbers 1-100 and classify as prime or composite).			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Prime and Composite Numbers				
Standard 3: Number Operations and Computation - The student will estimate and compute with whole numbers, decimals and 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
1. Estimation							
a. Use estimation skills to determine solutions to problems involving decimals.			Module: Decimals Unit: Introduction Session: Ordering and Rounding				
			Module: Decimals Unit: Addition and Subtraction Session: Adding Decimals				
			Module: Decimals Unit: Multiplication and Division Session: Multiplying Decimals				
b. Apply estimation skills to solve problems involving common percents and equivalent fractions.			Module: Decimals Unit: Multiplication and Division Session: Multiplying Decimals				
2. Whole Numbers, Decimals, and 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
a. Add and subtract decimal numbers with the same and different place values (e.g., $3.72 + 1.4$) to solve problems.				Module: Decimals Unit: Adding and Subtracting Decimals Session: Regrouping with Whole Numbers			
b. Multiply and divide whole numbers and decimal numbers with 1- or 2-digit multipliers or divisors to solve problems.				Module: Decimals Unit: Multiplying Decimals Session: Calculating Products			
				Module: Decimals Unit: Dividing Decimals Session: Dividing Decimals by Whole Numbers			
c. Add and subtract fractions and mixed numbers to solve problems using a variety of methods (e.g., use fraction strips, find the least common denominator [LCD]).			Module: Fractions Unit: Addition and Subtraction Session: Sums Involving Like Denominators				
			Module: Fractions Unit: Addition and Subtraction Session: Working 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
Standard 4: Geometry and Measurement - The student will apply geometric properties and relationships and use measurements within the metric and customary systems to solve problems in a variety of contexts.							
1. Identify and describe the basic properties of figures (e.g., two or three-dimensionality, symmetry, number of faces, types of angles).			Module: Geometry Unit: Measurement Session: Rectangles and Squares				
2. Find the perimeter of simple polygons and area of a rectangle (e.g., use 1-inch tiles to build rectangles of different perimeters and areas).			Module: Geometry Unit: Measurement Session: Rectangles and Squares				
*3 Use nonstandard units (beans, rice, candies) and standard units (centimeter cubes, 1-inch cubes) to find the volume of rectangular solids and estimate the volume of other solids.		Module: Geometry and Measurement Unit: Geometry Session: Area					
*4. Use the appropriate units and tools to estimate and measure temperature, distance, length, weight, and angles.					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
5. Convert basic measurements of volume, weight and distance within the same system for metric and customary units (e.g., inches to feet, hours to minutes, centimeters to meters).		Module: Geometry and Measurement Unit: Geometry Session: Volume					
Standard 5: Data Analysis and Probability - The student will use data analysis, statistics and probability to interpret data in a variety of contexts.							
1. Data Analysis							
a. Analyze data to create and interpret tables and graphs.			Module: Data Analysis and Probability Unit: Modelling and Displaying Events Session: Displaying and Analysing 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		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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		
b. Justify the selection of the type of table or graph (e.g., a line graph may be more appropriate than a bar graph when displaying the height of a person over time)			Module: Data Analysis and Probability Unit: Modelling and Displaying Events Session: Displaying and Analysing 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		
c. Compare and translate between displays of data (e.g., multiple sets of data on the same graph, Venn diagrams, a combination of diagrams, charts, tables, graphs).			Module: Data Analysis and Probability Unit: Modelling and Displaying Events Session: Displaying and Analysing 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
*d. Formulate questions, design investigations, consider samples, and collect, organize, and analyze data using observation, measurement, surveys, or experiments (e.g., how far can 5th graders throw a softball based on where it first hits the ground?).			Module: Data Analysis and Probability Unit: Modelling and Displaying Events Session: Displaying and Analysing Data				
e. Determine the range (spread) and the mean (average) of a set of data.			Module: Data Analysis and Probability Unit: Modelling and Displaying Events Session: Displaying and Analysing Data		Module: Fundamentals of Statistics Unit: The Mean, Median, and Mode Session: Defining the Mean and Median		
2. Probability							
a. Determine the probability of events occurring in familiar contexts or experiments and express probabilities as fractions (e.g., find the fractional probability of an event given a biased spinner).			Module: Data Analysis and Probability Unit: Modelling and Displaying Events Session: Looking at Chance		Module: Fundamentals of Probability Unit: Simple Probability Session: Calculating Probabilities on a Color Wheel		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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 Probability Unit: Probability of Combined Events Session: Calculating the Probability of Independent Events		
b. List permutations and combinations of up to five items.			Module: Data Analysis and Probability Unit: Modelling and Displaying Events Session: Looking at Chance		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 Dependent Events		
Standard 1: Algebraic Reasoning - The student will use algebraic methods to describe patterns and simplify algebraic expressions in a variety of 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
1. Extend and create patterns from tables, graphs, rules and number properties and generalize patterns algebraically (e.g., recursive patterns like the Fibonacci numbers, number sequences, prime and composite numbers).					Module: Essentials of Algebra Unit: Algebra Fundamentals Session: Identifying Components of Algebraic Expressions		
2. Use substitution and order of operations to simplify and evaluate algebraic expressions (e.g., if $x = 5$ evaluate $2x + 3$).					Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Using Variables to Express Relationships		
Standard 2: Number Sense - The student will use numbers and number relationships to solve problems.							
1. Multiply and divide fractions and mixed numbers to solve problems using a variety of methods.				Module: Fractions Unit: Essentials of Fractions Session: Exploring Proper and Improper Fractions			
				Module: Fractions Unit: Multiplying Fractions Session: Finding Products of Fractions, Whole Numbers, and 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
2. Convert, compare and order decimals (terminating and nonterminating), fractions and percents using a variety of methods.				Module: Decimals Unit: Essentials of Decimals Session: Investigating Decimal Place Values			
3. Estimate solutions to single and multi-step problems using whole numbers, fractions, and percents and assess whether solutions are reasonable (e.g., + about 2, $0.9 + 0.3$ is about 1).				Module: Percents Unit: Essentials of Percents Session: Expressing Percents as Proper Fractions			
				Module: Fractions Unit: Dividing Fractions Session: Estimating Quotients of Fractions			
*4. Build and explore multiples and their patterns to develop the concept of exponents				Module: Integers & Order of Operations Unit: Order of Operations Session: Simplifying Expressions			
5. Simplify numerical expressions with exponents and parentheses using order operations.				Module: Integers & 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
Standard 3: Geometry - The student will use geometric properties and relationships to recognize, describe and analyze shapes and representations in a variety of contexts.							
1. Angles							
a. Compare, estimate and determine the measurement of angles.					Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Naming and Measuring Angles		
b. Find the complement and supplement of an angle.					Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Defining Complementary and Supplementary Angles		
2. Differentiate between congruent and similar figures.					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
*3. Describe the effect of performing basic transformations on objects and figures in a variety of contexts. (e.g., explore reflection [flip] with mirrors, explore rotation [turn] and translation [slide] by designing the layout of different shapes of floor tile).			Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations				
Standard 4: Measurement - The student will use measurements within the metric and U.S. customary system to solve problems in a variety of contexts.							
*1. Collect data and develop formulas to find the circumference and area of circles (e.g., use string the length of the diameter of various circular lids to approximate the circumference and develop the concept of pi).				Module: Decimals Unit: Essentials of Decimals Session: Rounding Decimals	Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume and Surface Area of a Right Cylinder		
2. Compare and convert units within the same measurement system; express conversions using appropriate unit labels (e.g., square inches to square feet, centimeters to millimeters, hours to minutes); and compute measurements of combined units (e.g., 9'8" + 3'6" = ?' and ?" , 150 minutes = ? hours and ? minutes).					Module: Ratio and 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
3. Find reasonable estimates for measurements using measurements in standard and metric units.							
Standard 5: Data Analysis and Statistics - The student will use data analysis and statistics to interpret data in a variety of contexts.							
1. Collect, organize, and interpret data to solve problems (e.g., data from student experiments, tallies, Venn diagrams, tables, circle and bar graphs, spreadsheets).			Module: Data Analysis and Probability Unit: Modelling and Displaying Events Session: Displaying and Analysing 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
2. Construct and interpret graphs of statistical data (e.g., explain how different representations lead to different interpretations and may distort information)			Module: Data Analysis and Probability Unit: Modelling and Displaying Events Session: Displaying and Analysing 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		
3. Find the median and mode for a set of data in a variety of contexts.			Module: Data Analysis and Probability Unit: Modelling and Displaying Events Session: Displaying and Analysing Data		Module: Fundamentals of Statistics Unit: The Mean, Median, and Mode Session: Defining the Mean and Median		
Standard 1: Algebraic Reasoning - The student will use number properties to simplify and solve simple linear equations.							
1. Identify and apply the commutative, associative, distributive, inverse and identity properties (e.g., $n + 0 = n$, $2(x + 3) = 2x + 6$).					Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression 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
2. Use a variety of methods to model and solve one-step linear equations (e.g., use properties of equality, graph ordered pairs with paper and pencil, use graphing calculators).						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	
Standard 2: Number Sense - The student will use numbers and number relationships to acquire basic facts and determine the reasonableness of results.							
1. Integers							
a. Compare and order positive and negative integers and describe their use in real-life situations (e.g., temperature, sea level, stock market fluctuations, football yardage).				Module: Integers & Order of Operations Unit: Adding and Subtracting Signed Numbers Session: Exploring the Number Line and Absolute Value			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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 the basic operations on integers to solve problems.				Module: Integers & Order of Operations Unit: Adding and Subtracting Signed Numbers Session: Adding with Absolute Value			
				Module: Integers & Order of Operations Unit: Adding and Subtracting Signed Numbers Session: Subtracting with Absolute Value			
2. Ratio, Proportion and Percents							
*a. Demonstrate the concept of ratio and proportion with models (e.g., similar geometric shapes, scale models).					Module: Ratio and Proportion Unit: Ratio Session: Defining Ratio		
b. Set up equivalent ratios, estimate and solve problems using ratio, proportions, and percents including percents greater than 100 and less than 1 (e.g., determine missing sides of similar figures, heart rate per minute, cost per pound, pay to hours worked overtime).					Module: Ratio and Proportion Unit: Proportion Session: Defining a Proportion		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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 and Proportion Unit: Proportion Session: Solving for a Variable in a Proportion		
c. Solve percent application problems (e.g., discounts, tax, finding the missing value of percent/part/whole).					Module: Ratio and Proportion Unit: Direct and Inverse Variation Session: Solving Inverse Variation Problems		
3. Exponents							
*a. Analyze and develop generalizations of exponential patterns, including zero as an exponent, using manipulatives and calculators (e.g., model getting paid a penny the first day, 2 cents the second day, 4 cents the third day . . .).							
b. Build and recognize models of multiples to investigate squares and square roots (e.g., build rectangular arrays for numbers 1 to 100 and note which can be represented as squares).					Module: Radicals and Exponents Unit: Introduction to Radicals and Pythagorean Theorem Session: Investigating Squares and 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
c. Estimate the square root of a number (e.g., between two consecutive integers).					Module: Radicals and Exponents Unit: Introduction to Radicals and Pythagorean Theorem Session: Investigating Squares and Square Roots		
					Module: Radicals and Exponents Unit: Introduction to Radicals and Pythagorean Theorem Session: Defining Irrational Numbers		
Standard 3: Geometry - The student will apply the properties and relationships of plane geometry in a variety of contexts.							
1. Classifying Geometric Figures							
a. Classify triangles according to their sides and angles.					Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Sides		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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 quadrilaterals according to their sides and angles (e.g., determine whether all squares are rectangles).					Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Sides		
2. Identify and compare bisectors, interior, exterior, and vertical angles (e.g., using graph paper, software, protractors to measure angles between parallel lines with a transversal).					Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Naming and Measuring Angles		
					Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Recognizing Congruent Angles		
3. Rectangular Coordinate System							
a. Locate points on a plane in all four quadrants.			Module: Geometry Unit: Coordinate Geometry and Algebra Session: The Coordinate Plane				
b. Identify geometric transformation of figures (rotations, translations, and reflections).			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
Standard 4: Measurement - The student will use measurement to solve problems in a variety of contexts.							
1. Area and Perimeter							
a. Develop area and perimeter concepts (e.g., use grids to estimate the area of irregular shapes).					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 and Surface Area of a Right Cylinder		
b. Apply formulas to solve problems involving perimeter (circumference) and area of polygons and circles.					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume and Surface Area of a Right Cylinder		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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. Customary and Metric Measurements							
a. Select and use appropriate tools for measurements in practical applications and make reasonable estimates of measurements in a particular situation using the appropriate unit.							
b. Use estimates to relate customary and metric measurements to each other.							
Standard 5: Data Analysis and Probability - The student will use probability to formulate and justify predictions from a set of data.							
1. Use data from a sample to predict possible outcomes and compute simple probabilities as fractions, decimals or percents (e.g., use data from lists, tree diagrams, frequency distribution tables, area models).			Module: Data Analysis and Probability Unit: Modelling and Displaying Events Session: Looking at Chance				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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. Determine the probability of an event involving “or”, “and”, or “not” (e.g., on a spinner with 1 blue, 2 red and 2 yellow sections, what is the probability of getting a red or a yellow?).			Module: Data Analysis and Probability Unit: Modelling and Displaying Events Session: Looking at Chance		Module: Fundamentals of Probability Unit: Simple Probability Session: Calculating Probabilities on a Color Wheel		
3. Find all possible combinations and permutations involving a limited number of variables.			Module: Data Analysis and Probability Unit: Modelling and Displaying Events Session: Looking at Chance		Module: Fundamentals of Probability Unit: Probability of Combined Events Session: Calculating the Probability of Dependent Events		
Standard 1: Algebraic Reasoning - The student will graph and solve linear equations and inequalities in problem-solving situations.							
1. Equations							
a. Model, write, and solve 2-step linear equations using a variety of methods.						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: 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	
b. Graph and interpret the solution to linear equations on a number line with one variable and on a coordinate plane with two variables.						Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Graphing Ordered Pairs	
c. Predict the effect on the graph of a linear equation when the slope changes (e.g., make predictions from graphs, identify the slope in the equation $y = mx + b$ and relate to a graph).						Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Defining Slope	
2. Inequalities							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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. Model, write, and solve 1-step and 2-step linear inequalities with one variable.						Module: Linear Inequalities Unit: Inequalities in One Variable Session: Applying Inverse Operations	
b. Graph the solution to linear inequalities with one variable on a number line.						Module: Linear Inequalities Unit: Inequalities in One Variable Session: Graphing Solutions on a Number Line	
Standard 2: Number Sense - The student will use numbers and number relationships to solve problems.							
1. Rational Numbers and Proportional Reasoning							
a. Compare and order rational numbers (positive and negative integers, fractions, decimals) in real-life situations.					Module: Ratio and Proportion Unit: Ratio Session: Forming Ratios Between Unlike Quantities		Module: The Real Number System Unit: Rational and 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
b. Use the basic operations on rational numbers to solve problems in real-lifesituations (e.g., describe the effect of multiplying whole numbers by a fraction or a decimal less than 1).					Module: Ratio and Proportion Unit: Direct and Inverse Variation Session: Exploring and Solving Direct Variation Problems		
c. Apply ratios and proportions to solve problems.					Module: Ratio and Proportion Unit: Similar Polygons Session: Identifying Equivalent Ratios		
2. Exponents							
a. Use the rules of exponents, including integer exponents, to solve problems (e.g., $72 \cdot 73 = 75$).							Module: Powers and Polynomials Unit: Polynomial Arithmetic Session: Working with Powers
b. Represent and interpret large numbers and numbers less than one in exponential and scientific notation.					Module: Radicals and Exponents Unit: Introduction to Scientific Notation Session: Comparing Numbers in Scientific Notation		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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 estimation strategies (e.g., rounding) to describe the magnitude of large numbers and numbers less than one					Module: Radicals and Exponents Unit: Introduction to Scientific Notation Session: Writing Numbers Between 0 and 1 in Scientific Notation		
Standard 3: Geometry - The student will use geometric properties to solve problems in a variety of contexts.							
1. Construct models, sketch (from different perspectives), and classify solid figures such as rectangular solids, prisms, cones, cylinders, pyramids, and combined forms (e.g., draw a figure that could result from making 1, 2, or 3 cuts in a given solid).					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Surface Area of a Right Triangular Prism		
2. Develop the Pythagorean Theorem and apply the formula to find the length of missing sides of a right triangle and the length of other line segments.					Module: Radicals and Exponents Unit: Introduction to Radicals and Pythagorean Theorem Session: Exploring the Pythagorean Theorem		
Standard 4: Measurement - The student will use measurement to solve problems in a variety of 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
1. Estimate and find the surface area and volume in real world settings (e.g., unwrap a box to explore surface area; use rice, 1-inch cubes, centimeter cubes, cups . . . to estimate the volume of boxes, irregular shaped objects, containers).					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Surface Area of a Right Triangular Prism		
2. Apply knowledge of ratio and proportion to solve relationships between similar geometric figures (e.g., build a model of a 3-dimensional object to scale).					Module: Ratio and Proportion Unit: Proportion Session: Defining a Proportion		
3. Formulas							
a. Select and apply appropriate formulas for given situations: I. an equation (e.g., $d = rt$, $i = prt$) II. measurement problems (e.g., $p = 2l + 2w$, $v = lwh$)					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume of a Right Triangular Prism		
					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
b. Find the area of a “region of a region” for simple composite figures (e.g., area of a rectangular picture frame).			Module: Geometry Unit: Measurement Session: Rectangles and Squares				
			Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids				
Standard 5: Data Analysis and Statistics - The student will use data analysis and statistics to interpret data in a variety of contexts.							
1. Select and apply appropriate formats (e.g., line plots, bar graphs, stem-and-leaf plots, scatter plots, histograms, circle graphs) to display collected data.					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Bar Graphs		
					Module: Fundamentals of Statistics Unit: Frequency Distribution Session: Defining a Histogram		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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. Measures of Central Tendency							
a. Find the measures of central tendency (mean, median and mode) of a set of data and understand why a specific measure provides the most useful information in a given context.					Module: Fundamentals of Statistics Unit: The Mean, Median, and Mode Session: Calculating the Mean, Median, and Mode		
b. Compute the mean, median, and mode for data sets and understand how additional data in a set may affect the measures of central tendency.					Module: Fundamentals of Statistics Unit: Frequency Distribution Session: Creating and Interpreting a Frequency Table		
*3. Determine how samples are chosen (random, limited, biased) to draw and support conclusions about generalizing a sample to a population (e.g., is the average height of a men's college basketball team a good representative sample for height predictions?).							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
Process Standard 1: Problem Solving							
1. Apply a wide variety of problem-solving strategies (identify a pattern, use equivalent representations) to solve problems from within and outside mathematics.							
2. Identify the problem from a described situation, determine the necessary data and apply appropriate problem-solving strategies.							
Process Standard 2: Communication							
1. Use mathematical language and symbols to read and write mathematics and to converse with others.							
2. Demonstrate mathematical ideas orally and in writing.							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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. Analyze mathematical definitions and discover generalizations through investigations.							
Process Standard 3: Reasoning							
1. Use various types of logical reasoning in mathematical contexts and real-world situations.							
2. Prepare and evaluate suppositions and arguments.							
3. Verify conclusions, identify counterexamples, test conjectures, and justify solutions to mathematical problems.							
4. Justify mathematical statements through proofs.							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
Process Standard 4: Connections							
1. Link mathematical ideas to the real world (e.g., statistics helps qualify the confidence we can have when drawing conclusions based on a sample).							
2. Apply mathematical problem-solving skills to other disciplines.							
3. Use mathematics to solve problems encountered in daily life.							
4. Relate one area of mathematics to another and to the integrated whole (e.g., connect equivalent representations to corresponding problem situations or mathematical concepts).							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
Process Standard 5: Representation							
1. Use algebraic, graphic, and numeric representations to model and interpret mathematical and real world situations.							
2. Use a variety of mathematical representations as tools for organizing, recording, and communicating mathematical ideas (e.g., mathematical models, tables, graphs, spreadsheets).							
3. Develop a variety of mathematical representations that can be used flexibly and appropriately.							
Standard 1: Number Sense and Algebraic Operations - The student will use expressions and equations to model number 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. Translate word phrases and sentences into expressions and equations and vice versa.						Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Translating Words into Expressions	
2. Expressions							
a. Simplify and evaluate linear, absolute value, rational and radical expressions.						Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Evaluating and Simplifying Expressions	
						Module: The Language of Algebra Unit: Linear Equations in one Variable Session: Solving Absolute Value Equations	
b. Simplify polynomials by adding, subtracting or multiplying.							Module: Powers and Polynomials Unit: Polynomial Arithmetic Session: Adding and 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 and Polynomials Unit: Polynomial Arithmetic Session: Multiplying Polynomials
Standard 2: Relations and Functions - The student will use relations and functions to model number relationships.							
1. Relations and Functions							
a. Distinguish between linear and nonlinear data.							
b. Distinguish between relations and functions.						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: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Slope-Intercept Equation of a Line	
c. Identify dependent and independent variables, domain and range.							
d. Evaluate a function using tables, equations or graphs.						Module: Systems of Linear Equations Unit: Graphic Solutions of Linear Systems Session: Finding the Point of Intersection	
2. Recognize the parent graph of the functions $y = k$, $y = x$, $y = x $, and predict the effects of transformations on the parent graph (e.g., $y = x + 2$, change slope, change intercepts, change slope and intercept).						Module: Systems of Linear Equations Unit: Algebraic Solutions of Linear Systems Session: Using Substitution to Eliminate a Variable	
3. Calculate the slope of a line using a graph, an equation, two points or a set of data points.						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
4. Develop the equation of a line and graph linear relationships given the following:							
a. slope and y-intercept						Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Defining Slope	
b. slope and one point on the line						Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Defining Slope	
						Module: Linear Functions and Equations Unit: Introduction to Functions Session: Exploring the Point – Slope Equation of a Line	
c. two points on the line						Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Defining Slope	
d. x-intercept and y-intercept						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
e. a set of data points						Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Defining Slope	
5. Slope Interpretation							
a. Use the slope to differentiate between lines that are parallel, perpendicular, horizontal, or vertical.						Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Defining Slope	
b. Interpret the slope and intercepts within the context of everyday life (e.g., telephone charges based on base rate [y-intercept] plus rate per minute [slope]).						Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Finding x- and y- Intercepts	
6. Linear Equations and Inequalities							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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. Solve linear equations by graphing or using properties of equality.						Module: The Language of Algebra Unit: Linear Equations in one Variable Session: Transforming Equations using Multiple Operations	
b. Solve linear inequalities by graphing or using properties of inequalities.						Module: Linear Inequalities Unit: Inequalities in Two Variables Session: Graphing Solutions on a Rectangular Coordinate Plane	
c. Match appropriate equations or inequalities (with 1 or 2 variables) to a graph, table, or situation and vice versa.						Module: Linear Inequalities Unit: Inequalities in Two Variables Session: Solving Systems by Graphing	
7. Solve a system of linear equations by graphing, substitution or elimination.						Module: Linear Inequalities Unit: Inequalities in Two Variables Session: Solving Systems by Graphing	
8. Problem Solving							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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 the formulas from measurable attributes of geometric models (perimeter, circumference, area and volume), science, and statistics to solve problems within an algebraic context.							
b. Solve two-step and three-step problems using concepts such as rules of exponents, probability, rate, distance, ratio and proportion, measures of central tendency and percent.							
9. Nonlinear Functions							
a. Match exponential and quadratic functions to a table, graph or situation and vice versa.							Module: Quadratic Functions and Equations Unit: Graphing Quadratic Functions and Equations Session: Graphing Parabolas
b. Solve quadratic equations by graphing, factoring, or using the quadratic formula.							Module: Quadratic Functions and Equations Unit: Solving Quadratic Equations Using Algebra Session: Factoring and 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
Standard 3: Data Analysis and Statistics - The student will use data analysis and statistics to formulate and justify predictions from a set of data.							
1. Data Analysis							
a. Translate from one representation of data to another and understand that the data can be represented using a variety of tables, graphs, or symbols and that different modes of representation often convey different messages.							Module: Describing Data Unit: Graphical Displays Session: Stem-and-Leaf Plots and Box Plots
b. Make valid inferences, predictions, and/or arguments based on data from graphs, tables, and charts.							Module: Describing Data Unit: Graphical Displays Session: Scatter Plots and Linear Best-Fit Graphs
2. Collect data involving two variables and display on a scatter plot; interpret results using a linear model/equation and identify whether the model/equation is a line best fit for the data (e.g., given a scatter plot and several linear equations, which one is the best fit?).							Module: Describing Data Unit: Graphical Displays Session: Scatter Plots and Linear Best-Fit Graphs