Riverdeep Correlations

DESTINATION Math.

Correlation of Destination Math® Courseware to Texas (TEKS) State Standards
September - 2006

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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
Pre-Kindergarten							
(1) Number and Operations. The child:							
arranges sets of concrete objects in one-to-one correspondence							
counts by ones to 10 or higher							
counts concrete objects to five or higher							
begins to compare the numbers of concrete objects using language (e.g., "same" or "equal," "one more," "more than," or "less than")							

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begins to name "how many" are in a group of up to three (or more) objects without counting (e.g., recognizing two or three crayons in a box)							
recognizes and describes the concept of zero (meaning there are none)							
begins to demonstrate part of and whole with real objects (e.g., an orange)							
begins to identify first and last in a series							
combines, separates, and names "how many" concrete objects.							
(2) Patterns. The child:							

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imitates pattern sounds and physical movements (e.g., clap, stomp, clap, stomp,...)							
recognizes and reproduces simple patterns of concrete objects (e.g., a string of beads that are yellow, blue, blue, yellow, blue, blue)							
begins to recognize patterns in their environment (e.g., day follows night, repeated phrases in storybooks, patterns in carpeting or clothing)							
begins to predict what comes next when patterns are extended.							
(3) Geometry and Spatial Sense. The child:							
begins to recognize, describe, and name shapes (e.g., circles, triangles, rectangles-including squares)							

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begins to use words that indicate where things are in space (e.g., "beside," "inside," "behind," "above," "below")							
begins to recognize when a shape's position or orientation has changed							
begins to investigate and predict the results of putting together two or more shapes							
puts together puzzles of increasing complexity.							
(4) Measurement. The child:							
covers an area with shapes (e.g., tiles)							

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fills a shape with solids or liquids (e.g., ice cubes, water)							
begins to make size comparisons between objects (e.g., taller than, smaller than)							
begins to use tools to imitate measuring							
begins to categorize time intervals and uses language associated with time in everyday situations (e.g., "in the morning," "after snack")							
begins to order two or three objects by size (seriation) (e.g., largest to smallest) (age 4).							
(5) Classification and Data Collection. The child:							

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matches objects that are alike							
describes similarities and differences between objects							
sorts objects into groups by an attribute and begins to explain how the grouping was done							
participates in creating and using real and pictorial graphs.							
Kindergarten							
(1) Number, operation, and quantitative reasoning. The student uses numbers to name quantities. The student is expected to:							

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(A) use one-to-one correspondence and language such as more than, same number as, or two less than to describe relative sizes of sets of concrete objects;	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: One More Than						
	Module: Number Sense Unit: Numbers from 1 to 10 Session: One Fewer Than and Zero						
	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						
	Module: Number Sense Unit: Comparing and Ordering Session: More Than, Less Than, or The Same						

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	Module: Number Sense Unit: Comparing and Ordering Session: Comparing Numbers within 100						
	Module: Addition and Subtraction Unit: Addition Session: Sums within 20, with 10 as One Addend						
(B) use sets of concrete objects to represent quantities given in verbal or written form (through 20); and	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 10 Session: Creating Sets of 5 to 10						
(C) use numbers to describe how many objects are in a set (through 20) using verbal and symbolic descriptions.	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						

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	Module: Number Sense Unit: Numbers from 1 to 5 Session: Creating Representations of the Numbers from 1 to 5						
	Module: Number Sense Unit: Numbers from 1 to 10 Session: Counting from 5 to 10						
	Module: Number Sense Unit: Numbers from 1 to 10 Session: Creating Sets of 5 to 10						
	Module: Number Sense Unit: Numbers from 1 to 10 Session: Creating Representations of the Numbers from 5 to 10						
	Module: Number Sense Unit: Numbers to 100 Session: Counting from 10 to 20						
(2) Number, operation, and quantitative reasoning. The student describes order of events or objects. The student is expected to:							

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(A) use language such as before or after to describe relative position in a sequence of events or objects; and	Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time						
(B) name the ordinal positions in a sequence such as first, second, third, etc.	Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time						
(3) Number, operation, and quantitative reasoning. The student recognizes that there are quantities less than a whole. The student is expected to:							
(A) share a whole by separating it into two equal parts; and		Module: Operations with Numbers Unit: Division Session: Fractional Parts					
(B) explain why a given part is half of the whole.		Module: Operations with Numbers Unit: Division Session: Fractional Parts					
(4) Number, operation, and quantitative reasoning. The student models addition (joining) and subtraction (separating) . The student is expected to model and create addition and subtraction problems in real situations with concrete objects.	Module: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10						

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	Module: Addition and Subtraction Unit: Addition Session: Comparing within 10						
	Module: Addition and Subtraction Unit: Addition Session: Sums within 20, with 10 as One Addend						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 10						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 20						
(5) Patterns, relationships, and algebraic thinking. The student identifies, extends, and creates patterns. The student is expected to identify, extend, and create patterns of sounds, physical movement, and concrete objects.	Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes						
(6) Patterns, relationships, and algebraic thinking. The student uses patterns to make predictions. The student is expected to:							
(A) use patterns to predict what comes next, including cause-and-effect relationships	Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes						

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	Module: Algebraic Thinking Unit: Patterns and Displays Session: Number Patterns						
(B) count by ones to 100.	Module: Number Sense Unit: Numbers from 1 to 5 Session: Counting from 1 to 5						
	Module: Number Sense Unit: Numbers from 1 to 10 Session: Counting from 5 to 10						
	Module: Number Sense Unit: Numbers to 100 Session: Counting from 10 to 20						
	Module: Number Sense Unit: Numbers to 100 Session: Counting from 20 to 50						
	Module: Number Sense Unit: Numbers to 100 Session: Counting from 50 to 100						

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(7) Geometry and spatial reasoning. The student describes the relative positions of objects. The student is expected to:							
(A) describe one object in relation to another using informal language such as over, under, above, and below; and							
(B) place an object in a specified position.	Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time						
(8) Geometry and spatial reasoning. The student uses attributes to determine how objects are alike and different. The student is expected to:							
(A) describe and identify an object by its attributes using informal language;	Module: Geometry and Measurement Unit: Geometry Session: Triangles and Rectangles						
(B) compare two objects based on their attributes; and	Module: Geometry and Measurement Unit: Measurement Session: Length						

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	Module: Geometry and Measurement Unit: Geometry Session: Triangles and Rectangles						
(C) sort a variety of objects including two and three-dimensional geometric figures according to their attributes and describe how the objects are sorted.	Module: Geometry and Measurement Unit: Geometry Session: Triangles and Rectangles						
	Module: Geometry and Measurement Unit: Geometry Session: Three-Dimensional Shapes						
	Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes						
(9) Geometry and spatial reasoning. The student recognizes attributes of two- and three-dimensional geometric figures. The student is expected to:							
(A) describe and compare the attributes of real-life objects such as balls, boxes, cans, and cones or models of three dimensional geometric figures;	Module: Geometry and Measurement Unit: Geometry Session: Three-Dimensional Shapes						

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(B) recognize shapes in real-life three-dimensional geometric figures or models of three-dimensional geometric figures; and	Module: Geometry and Measurement Unit: Geometry Session: Three-Dimensional Shapes						
(C) describe, identify, and compare circles, triangles, rectangles , and squares (a special type of rectangle).	Module: Geometry and Measurement Unit: Geometry Session: Triangles and Rectangles						
	Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes						
(10) Measurement. The student directly compares the attributes of length, area, weight/mass, capacity, and/or relative temperature. The student uses comparative language to solve problems and answer questions. The student is expected to:							
(A) compare and order two or three concrete objects according to length (longer/shorter than, or the same);	Module: Geometry and Measurement Unit: Measurement Session: Length						
(B) compare the areas of two flat surfaces of two-dimensional figures (covers more, covers less, or covers the same);		Module: Geometry and Measurement Unit: Geometry Session: Area					

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(C) compare two containers according to capacity (holds more, holds less, or holds the same);		Module: Geometry and Measurement Unit: Geometry Session: Volume					
(D) compare two objects according to weight/mass (heavier than, lighter than or equal to); and	Module: Geometry and Measurement Unit: Measurement Session: Weight						
(E) compare situations or objects according to relative temperature (hotter/colder than, or the same as).		Module: Geometry and Measurement Unit: Measurement Session: Temperature					
(11) Measurement. The student uses time to describe, compare, and order events and situations. The student is expected to:							
(A) compare events according to duration such as more time than or less time than;	Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time						
(B) sequence events (up to three); and	Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time						

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	Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes						
(C) read a calendar using days, weeks, and months.	Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time						
(12) Probability and statistics. The student constructs and uses graphs of real objects or pictures to answer questions. The student is expected to:							
(A) construct graphs using real objects or pictures in order to answer questions; and	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						
(B) use information from a graph of real objects or pictures in order to answer questions.	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						
(13) Underlying processes and mathematical tools. The student applies Kindergarten mathematics to solve problems connected to everyday experiences and activities in and outside of school. The student is expected to:							
(A) identify mathematics in everyday situations;	Module: Number Sense Unit: Numbers to 100 Session: Counting from 20 to 50						

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	Module: Addition and Subtraction Unit: Addition Session: Comparing within 10						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 10						
	Module: Geometry and Measurement Unit: Measurement Session: Length						
	Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time						
(B) solve problems with guidance that incorporates the processes of understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness;							
(C) select or develop an appropriate problem-solving strategy including drawing a picture, looking for a pattern, systematic guessing and checking, or acting it out in order to solve a problem; and	Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes						

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(D) use tools such as real objects, manipulatives, and technology to solve problems.	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: 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						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 10						

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	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 20						
	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						
	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						
(14) Underlying processes and mathematical tools. The student communicates about Kindergarten mathematics using informal language. The student is expected to:							

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(A) communicate mathematical ideas using objects, words, pictures, numbers, and technology; and	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: Numbers to 100 Session: Skip-Counting by Tens and Fives						
	Module: Number Sense Unit: Numbers to 100 Session: Skip-Counting by Twos						
	Module: Number Sense Unit: Comparing and Ordering Session: More Than, Less Than, or The Same						
	Module: Geometry and Measurement Unit: Measurement Session: Length						

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	Module: Geometry and Measurement Unit: Measurement Session: Weight						
	Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time						
	Module: Geometry and Measurement Unit: Geometry Session: Triangles and Rectangles						
	Module: Geometry and Measurement Unit: Geometry Session: Three-Dimensional Shapes						
	Module: Algebraic Thinking Unit: Patterns and Displays Session: Number Patterns						
(B) relate everyday language to mathematical language and symbols.	Module: Number Sense Unit: Comparing and Ordering Session: More Than, Less Than, or The Same						

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	Module: Number Sense Unit: Comparing and Ordering Session: Comparing Numbers within 100						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 10						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 20						
(15) Underlying processes and mathematical tools. The student uses logical reasoning. The student is expected to justify his or her thinking using objects, words, pictures, numbers, and technology.							
Grade 1							
(1) Number, operation, and quantitative reasoning. The student uses whole numbers to describe and compare quantities. The student is expected to:							
(A) compare and order whole numbers up to 99 (less than, greater than, or equal to) using sets of concrete objects and pictorial models;	Module: Number Sense Unit: Comparing and Ordering Session: Comparing Numbers within 100						

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	Module: Addition and Subtraction Unit: Addition Session: Sums within 20						
		Module: Number Sense Unit: Numbers to 999 Session: Comparing and Ordering					
(B) create sets of tens and ones using concrete objects to describe, compare, and order whole numbers;	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 999 Session: Counting by Grouping					
		Module: Number Sense Unit: Numbers to 999 Session: Place Value: Tens and Ones					

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		Module: Number Sense Unit: Numbers to 999 Session: Expanded Form and Equivalent Representations of a Number					
		Module: Number Sense Unit: Numbers to 999 Session: Comparing and Ordering					
(C) identify individual coins by name and value and describe relationships among them; and	Module: Geometry and Measurement Unit: Measurement Session: Money						
		MSC2: Module: Geometry and Measurement Unit: Measurement Session: Money					
(D) read and write numbers to 99 to describe sets of concrete objects.	Module: Number Sense Unit: Numbers to 100 Session: Counting from 20 to 50						
		Module: Number Sense Unit: Numbers to 999 Session: Place Value: Tens and Ones					

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		Module: Number Sense Unit: Numbers to 999 Session: Expanded Form and Equivalent Representations of a Number					
(2) Number, operation, and quantitative reasoning. The student uses pairs of whole numbers to describe fractional parts of whole objects or sets of objects. The student is expected to:							
(A) separate a whole into two, three, or four equal parts and use appropriate language to describe the parts such as three out of four equal parts; and		Module: Operations with Numbers Unit: Division Session: Fractional Parts					
(B) use appropriate language to describe part of a set such as three out of the eight crayons are red.		Module: Operations with Numbers Unit: Division Session: Fractional Parts					
(3) Number, operation, and quantitative reasoning. The student recognizes and solves problems in addition and subtraction situations. The student is expected to:							
(A) model and create addition and subtraction problem situations with concrete objects and write corresponding number sentences; and	Module: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10						

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	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						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 10						
	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) use concrete and pictorial models to apply basic addition and subtraction facts (up to 9 + 9 = 18 and 18 - 9 = 9).	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						
(4) Patterns, relationships, and algebraic thinking. The student uses repeating patterns and additive patterns to make predictions. The student is expected to identify, describe, and extend concrete and pictorial patterns in order to make predictions and solve problems.	Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes						
(5) Patterns, relationships, and algebraic thinking. The student recognizes patterns in numbers and operations. The student is expected to:							

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(A) use patterns to skip count by twos, fives, and tens;	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						
(B) find patterns in numbers, including odd and even;	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						
	Module: Algebraic Thinking Unit: Patterns and Displays Session: Number Patterns						
		Module: Number Sense Unit: Numbers to 999 Session: Expanded Form and Equivalent Representations of a Number					

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		Module: Operations with Numbers Unit: Multiplication Session: Repeated Addition and Arrays					
		Module: Operations with Numbers Unit: Multiplication Session: Skip Counting to Show Multiplication					
(C) compare and order whole numbers using 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					
		Module: Number Sense Unit: Numbers to 999 Session: Comparing and Ordering					
(D) use patterns to develop strategies solve basic addition and basic subtraction problems; and	Module: Algebraic Thinking Unit: Patterns and Displays Session: Number Patterns						

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(E) identify patterns in related addition and subtraction sentences (fact families for sums to 18) such as 2 + 3 = 5, 3 + 2 = 5, 5 - 2 = 3, and 5 - 3 = 2.		Module: Operations with Numbers Unit: Addition and Subtraction Session: Sums Less than 100					
(6) Geometry and spatial reasoning. The student uses attributes to identify two- and three-dimensional geometric figures. The student compares and contrasts two- and three-dimensional geometric figures or both. The student is expected to:							
(A) describe and identify two-dimensional geometric figures, including circles, triangles, rectangles, and squares (a special type of rectangle);	Module: Geometry and Measurement Unit: Geometry Session: Triangles and Rectangles						
	Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes						
(B) describe and identify three-dimensional geometric figures, including spheres, rectangular prisms (including cubes), cylinders, and cones;	Module: Geometry and Measurement Unit: Geometry Session: Three-Dimensional Shapes						
		Module: Geometry and Measurement Unit: Geometry Session: Volume					

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(C) describe and identify two- and three-dimensional geometric figures in order to sort them according to a given attribute using informal and formal language; and	Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes						
(D) use concrete models to combine two-dimensional geometric figures to make new geometric figures.							
(7) Measurement. The student directly compares the attributes of length, area, weight/mass, capacity, and temperature. The student uses comparative language to solve problems and answer questions. The student selects and uses nonstandard units to describe length. The student is expected to:							
(A) estimate and measure length using nonstandard units such as paper clips or sides of color tiles;	Module: Geometry and Measurement Unit: Measurement Session: Length						
(B) compare and order two or more concrete objects according to length (from longest to shortest);	Module: Geometry and Measurement Unit: Measurement Session: Length						
(C) describe the relationship between the size of the unit and the number of units needed to measure the length of an object;	Module: Geometry and Measurement Unit: Measurement Session: Length						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
		Module: Operations with Numbers Unit: Division Session: Meaning of Division					
(D) compare and order the area of two or more two-dimensional surfaces (from covers the most to covers the least);		Module: Geometry and Measurement Unit: Geometry Session: Area					
(E) compare and order two or more containers according to capacity (from holds the most to holds the least);		Module: Geometry and Measurement Unit: Geometry Session: Volume					
(F) compare and order two or more objects according to weight/mass (from heaviest to lightest); and	Module: Geometry and Measurement Unit: Measurement Session: Weight						
(G) compare and order two or more objects according to relative temperature (from hottest to coldest).		Module: Geometry and Measurement Unit: Measurement Session: Temperature					
(8) Measurement. The student understands that time can be measured. The student uses time to describe and compare situations. The student is expected to:							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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) order three or more events according to duration; and	Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time						
		Module: Geometry and Measurement Unit: Measurement Session: Time					
(B) read time to the hour and half-hour using analog and digital clocks.	Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time						
		Module: Geometry and Measurement Unit: Measurement Session: Time					
(9) Probability and statistics. The student displays data in an organized form. The student is expected to:							
(A) collect and sort data; and	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
(B) use organized data to construct real object graphs, picture graphs, and bar-type graphs.	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						
(10) Probability and statistics. The student uses information from organized data. The student is expected to:							
(A) draw conclusions and answer questions using information organized in real-object graphs, picture graphs, and bar-type graphs; and	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						
(B) identify events as certain or impossible such as drawing a red crayon from a bag of green crayons.							
(11) Underlying processes and mathematical tools. The student applies Grade 1 mathematics to solve problems connected to everyday experiences and activities in and outside of school. The student is expected to:							
(A) identify mathematics in everyday situations;	Module: Number Sense Unit: Numbers to 100 Session: Counting from 20 to 50						
	Module: Addition and Subtraction Unit: Addition Session: Comparing within 10						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 10						
	Module: Geometry and Measurement Unit: Measurement Session: Length						
	Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time						
	Module: Geometry and Measurement Unit: Measurement Session: Money						
	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						
		Module: Operations with Numbers Unit: Division Session: Fractional Parts					

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
		Module: Geometry and Measurement Unit: Geometry Session: Volume					
		Module: Geometry and Measurement Unit: Measurement Session: Temperature					
(B) solve problems with guidance that incorporates the processes of understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness;							
(C) select or develop an appropriate problem-solving plan or strategy including drawing a picture, looking for a pattern, systematic guessing and checking, or acting it out in order to solve a problem; and							
(D) use tools such as real objects, manipulatives, and technology to solve problems.	Module: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10						
	Module: Addition and Subtraction Unit: Addition Session: Comparing within 10						
	Module: Addition and Subtraction Unit: Addition Session: Sums within 20, with 10 as One Addend						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Addition and Subtraction Unit: Addition Session: Sums within 20						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 10						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 20						
	Module: Geometry and Measurement Unit: Measurement Session: Length						
	Module: Geometry and Measurement Unit: Measurement Session: Weight						
		Module: Number Sense Unit: Numbers to 999 Session: Counting by Grouping					

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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: Sums Less than 100					
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Differences within 100					
		Module: Operations with Numbers Unit: Multiplication Session: Skip Counting to Show Multiplication					
		Module: Operations with Numbers Unit: Division Session: Meaning of Division					
		Module: Operations with Numbers Unit: Division Session: Fractional Parts					
(12) Underlying processes and mathematical tools. The student communicates about Grade 1 mathematics using informal language. The student is expected to:							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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) explain and record observations using objects, words, pictures, numbers, and technology; and	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						
	Module: Geometry and Measurement Unit: Measurement Session: Money						
	Module: Geometry and Measurement Unit: Geometry Session: Triangles and Rectangles						
	Module: Geometry and Measurement Unit: Geometry Session: Three-Dimensional Shapes						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes						
(B) relate informal language to mathematical language and symbols.	Module: Number Sense Unit: Comparing and Ordering Session: Comparing Numbers within 100						
	Module: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 10						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 20						
	Module: Geometry and Measurement Unit: Measurement Session: Money						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
		Module: Operations with Numbers Unit: Multiplication Session: Skip Counting to Show Multiplication					
		Module: Operations with Numbers Unit: Division Session: Meaning of Division					
		MSC2: Module: Geometry and Measurement Unit: Measurement Session: Money					
		Module: Geometry and Measurement Unit: Measurement Session: Temperature					
(13) Underlying processes and mathematical tools. The student uses logical reasoning. The student is expected to justify his or her thinking using objects, words, pictures, numbers, and technology.							
Grade 2							
(1) Number, operation, and quantitative reasoning. The student understands how place value is used to represent whole numbers. The student is expected to:							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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 concrete models of hundreds, tens, and ones to represent a given whole number (up to 999) in various ways;	Module: Number Sense Unit: Comparing and Ordering Session: More Than, Less Than, or The Same						
	Module: Number Sense Unit: Comparing and Ordering Session: Comparing Numbers within 100						
		Module: Number Sense Unit: Numbers to 999 Session: Place Value: Hundreds, Tens, and Ones					
		Module: Number Sense Unit: Numbers to 999 Session: Expanded Form and Equivalent Representations of a Number					
		Module: Number Sense Unit: Numbers to 999 Session: Comparing and Ordering					
(B) use place value to read, write, and describe the value of whole numbers to 999; and	Module: Number Sense Unit: Comparing and Ordering Session: More Than, Less Than, or The Same						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Number Sense Unit: Comparing and Ordering Session: Comparing Numbers within 100						
		Module: Number Sense Unit: Numbers to 999 Session: Place Value: Hundreds, Tens, and Ones					
		Module: Number Sense Unit: Numbers to 999 Session: Expanded Form and Equivalent Representations of a Number					
		Module: Number Sense Unit: Numbers to 999 Session: Comparing and Ordering					
(C) use place value to compare and order whole numbers to 999 and record the comparisons using numbers and symbols (<, =, >).	Module: Number Sense Unit: Comparing and Ordering Session: More Than, Less Than, or The Same						
	Module: Number Sense Unit: Comparing and Ordering Session: Comparing Numbers within 100						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
		Module: Number Sense Unit: Numbers to 999 Session: Place Value: Hundreds, Tens, and Ones					
		Module: Number Sense Unit: Numbers to 999 Session: Expanded Form and Equivalent Representations of a Number					
		Module: Number Sense Unit: Numbers to 999 Session: Comparing and Ordering					
(2) Number, operation, and quantitative reasoning. The student describes how fractions are used to name parts of whole objects or sets of objects. The student is expected to:							
(A) use concrete models to represent and name fractional parts of a whole object (with denominators of 12 or less);		Module: Operations with Numbers Unit: Division Session: Fractional Parts					
			Module: Fractions Unit: Proper and Improper Fractions Session: Proper Fractions				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
(B) use concrete models to represent and fractional parts of a set of objects (with denominators of 12 or less); and		Module: Operations with Numbers Unit: Division Session: Fractional Parts					
			Module: Fractions Unit: Proper and Improper Fractions Session: Proper Fractions				
(C) use concrete models to determine if a fractional part of a whole is closer to 0, ½, or 1.							
(3) Number, operation, and quantitative reasoning. The student adds and subtracts whole numbers to solve problems. The student is expected to:							
(A) recall and apply basic addition and subtraction facts (to 18);	Module: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10						
	Module: Addition and Subtraction Unit: Addition Session: Comparing within 10						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Addition and Subtraction Unit: Addition Session: Sums within 20, with 10 as One Addend						
	Module: Addition and Subtraction Unit: Addition Session: Sums within 20						
(B) model addition and subtraction of two-digit numbers with objects, pictures, words, and numbers;	Module: Addition and Subtraction Unit: Addition Session: Sums within 20, with 10 as One Addend						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 20						
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Sums Less than 100					
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Differences within 100					

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
(C) select addition or subtraction to solve problems using two-digit numbers, whether or not regrouping is necessary;	Module: Addition and Subtraction Unit: Addition Session: Sums within 20, with 10 as One Addend						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 20						
		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					
(D) determine the value of a collection of coins up to one dollar; and	Module: Geometry and Measurement Unit: Measurement Session: Money						
		MSC2: Module: Geometry and Measurement Unit: Measurement Session: Money					

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
(E) describe how the cent symbol, dollar symbol, and the decimal point are used to name the value of a collection of coins.		MSC2: Module: Geometry and Measurement Unit: Measurement Session: Money					
(4) Number, operation, and quantitative reasoning. The student models multiplication and division. The student is expected to:							
(A) model, create, and describe multiplication situations in which equivalent sets of concrete objects are joined; and		Module: Operations with Numbers Unit: Multiplication Session: Repeated Addition and Arrays					
		Module: Operations with Numbers Unit: Multiplication Session: Skip Counting to Show Multiplication					
		Module: Operations with Numbers Unit: Multiplication Session: Finding Products Less than 100					
		Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties					

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
(B) model, create, and describe division situations in which a set of concrete objects is separated into equivalent sets.		Module: Operations with Numbers Unit: Division Session: Meaning of Division					
		Module: Operations with Numbers Unit: Division Session: Dividing by a 1-digit Number					
(5) Patterns, relationships, and algebraic thinking. The student uses patterns in numbers and operations. The student is expected to:							
(A) find patterns in numbers such as in a 100s chart;	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						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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 patterns in place value to compare and order whole numbers through 999; and		Module: Number Sense Unit: Numbers to 999 Session: Place Value: Tens and Ones					
		Module: Number Sense Unit: Numbers to 999 Session: Place Value: Hundreds, Tens, and Ones					
		Module: Number Sense Unit: Numbers to 999 Session: Comparing and Ordering					
(C) use patterns and relationships to develop strategies to remember basic addition and subtraction facts. Determine patterns in related addition and subtraction number sentences (including fact families) such as 8 + 9 = 17, 9 + 8 = 17, 17 - 8 = 9, and 17 - 9 = 8.	Module: Algebraic Thinking Unit: Patterns and Displays Session: Number Patterns						
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Sums Less than 100					
		Module: Operations with Numbers Unit: Multiplication Session: Repeated Addition and Arrays					

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums				
(6) Patterns, relationships, and algebraic thinking. The student uses patterns to describe relationships and make predictions. The student is expected to:							
(A) generate a list of paired numbers based on a real-life situation such as number of tricycles related to number of wheels;		Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties					
(B) identify patterns in a list of related number pairs based on a real-life situation and extend the list; and		Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties					
(C) identify, describe, and extend repeating and additive patterns to make predictions and solve problems.	Module: Algebraic Thinking Unit: Patterns and Displays Session: Number Patterns						
		Module: Operations with Numbers Unit: Multiplication Session: Repeated Addition and Arrays					

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
		Module: Operations with Numbers Unit: Multiplication Session: Skip Counting to Show Multiplication					
		Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties					
(7) Geometry and spatial reasoning. The student uses attributes to identify two- and three-dimensional geometric figures. The student compares and contrasts two- and three-dimensional geometric figures or both. The student is expected to:							
(A) describe attributes (the number of vertices, faces, edges, sides) of two- and three-dimensional geometric figures such as circles, polygons, spheres, cones, cylinders, prisms, and pyramids, etc.;	Module: Geometry and Measurement Unit: Geometry Session: Triangles and Rectangles						
	Module: Geometry and Measurement Unit: Geometry Session: Three-Dimensional Shapes						
	Module: Algebraic Thinking Unit: Patterns and Displays Session: Shapes						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
		Module: Geometry and Measurement Unit: Geometry Session: Area					
(B) use attributes to describe how 2 two-dimensional figures or 2 three-dimensional geometric figures are alike or different; and							
(C) cut two-dimensional geometric figures apart and identify the new geometric figures formed.							
(8) Geometry and spatial reasoning. The student recognizes that a line can be used to represent a set of numbers and its properties. The student is expected to use whole numbers to locate and name points on a number line.		Module: Operations with Numbers Unit: Addition and Subtraction Session: Estimating and Finding Sums less than 1,000					
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Estimating and Finding Differences within 1,000					
		Module: Operations with Numbers Unit: Multiplication Session: Skip Counting to Show Multiplication					

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
(9) Measurement. The student directly compares the attributes of length, area, weight/mass, and capacity, and uses comparative language to solve problems and answer questions. The student selects and uses nonstandard units to describe length, area, capacity, and weight/mass. The student recognizes and uses models that approximate standard units (from both SI, also known as metric, and customary systems) of length, weight/mass, capacity, and time. The student is expected to:							
(A) identify concrete models that approximate standard units of length and use them to measure length;	Module: Geometry and Measurement Unit: Measurement Session: Length						
(B) select a non-standard unit of measure such as square tiles to determine the area of a two-dimensional surface;		Module: Geometry and Measurement Unit: Geometry Session: Area					
(C) select a non-standard unit of measure such as a bathroom cup or a jar to determine the capacity of a given container; and		Module: Geometry and Measurement Unit: Geometry Session: Volume					
(D) select a non-standard unit of measure such as beans or marbles to determine the weight/mass of a given object.	Module: Geometry and Measurement Unit: Measurement Session: Weight						
(10) Measurement. The student uses standard tools to estimate and measure time and temperature (in degrees Fahrenheit). The student is expected to:							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
(A) read a thermometer to gather data;		Module: Geometry and Measurement Unit: Measurement Session: Temperature					
(B) read and write times shown on analog and digital clocks using five-minute increments; and		Module: Geometry and Measurement Unit: Measurement Session: Time					
(C) describe activities that take approximately one second, one minute, and one hour.							
(11) Probability and statistics. The student organizes data to make it useful for interpreting information. The student is expected to:							
(A) construct picture graphs and bar-type graphs;	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						
(B) draw conclusions and answer questions based on picture graphs and bar-type graphs; and	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
(C) use data to describe events as more likely or less likely such as drawing a certain color crayon from a bag of seven red crayons and three green crayons.							
(12) Underlying processes and mathematical tools. The student applies Grade 2 mathematics to solve problems connected to everyday experiences and activities in and outside of school. The student is expected to:							
(A) identify the mathematics in everyday situations;	Module: Addition and Subtraction Unit: Addition Session: Comparing within 10						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 20						
	Module: Geometry and Measurement Unit: Measurement Session: Length						
	Module: Geometry and Measurement Unit: Measurement Session: Money						
		Module: Operations with Numbers Unit: Division Session: Fractional Parts					

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
		Module: Geometry and Measurement Unit: Geometry Session: Area					
		Module: Geometry and Measurement Unit: Geometry Session: Volume					
		Module: Geometry and Measurement Unit: Measurement Session: Time					
		MSC2: Module: Geometry and Measurement Unit: Measurement Session: Money					
		Module: Geometry and Measurement Unit: Measurement Session: Temperature					
(B) solve problems with guidance that incorporates the processes of understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness;							
(C) select or develop an appropriate problem-solving strategy including drawing a picture, looking for a pattern, systematic guessing and checking, or acting it out in order to solve a problem; and							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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) use tools such as real objects, manipulatives, and technology to solve problems.	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						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 20						
	Module: Geometry and Measurement Unit: Measurement Session: Length						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Geometry and Measurement Unit: Measurement Session: Weight						
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Sums Less than 100					
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Differences within 100					
(13) Underlying processes and mathematical tools. The student communicates about Grade 2 mathematics using informal language. The student is expected to:							
(A) explain and record observations using objects, words, pictures, numbers, and technology; and	Module: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10						
	Module: Addition and Subtraction Unit: Addition Session: Comparing within 10						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Addition and Subtraction Unit: Addition Session: Sums within 20, with 10 as One Addend						
	Module: Addition and Subtraction Unit: Addition Session: Sums within 20						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 20						
	Module: Geometry and Measurement Unit: Measurement Session: Length						
	Module: Geometry and Measurement Unit: Measurement Session: Weight						
	Module: Geometry and Measurement Unit: Measurement Session: Money						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Geometry and Measurement Unit: Geometry Session: Triangles and Rectangles						
(B) relate informal language to mathematical language and symbols.	Module: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 20						
	Module: Geometry and Measurement Unit: Measurement Session: Money						
		Module: Operations with Numbers Unit: Multiplication Session: Skip Counting to Show Multiplication					
		Module: Operations with Numbers Unit: Division Session: Meaning of 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
		MSC2: Module: Geometry and Measurement Unit: Measurement Session: Money					
		Module: Geometry and Measurement Unit: Measurement Session: Temperature					
(14) Underlying processes and mathematical tools. The student uses logical reasoning. The student is expected to justify his or her thinking using objects, words, pictures, numbers, and technology.							
Grade 3							
(1) Number, operation, and quantitative reasoning. The student uses place value to communicate about increasingly large whole numbers in verbal and written form, including money. The student is expected to:							
(A) use place value to read, write (in symbols and words), and describe the value of whole numbers through 999,999;		Module: Number Sense Unit: Numbers to 999 Session: Counting by Grouping					
		Module: Number Sense Unit: Numbers to 999 Session: Place Value: Tens and Ones					

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
		Module: Number Sense Unit: Numbers to 999 Session: Place Value: Hundreds, Tens, and Ones					
		Module: Number Sense Unit: Numbers to 999 Session: Expanded Form and Equivalent Representations of a Number					
		Module: Number Sense Unit: Numbers to 9,999 Session: Place Value: Thousands, Hundreds, Tens, and Ones					
		Module: Number Sense Unit: Numbers to 9,999 Session: Comparing and Ordering					
			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Whole Numbers to One Million				
(B) use place value to compare and order whole numbers through 9,999; and	Module: Number Sense Unit: Comparing and Ordering Session: Comparing Numbers within 100						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
		Module: Number Sense Unit: Numbers to 999 Session: Comparing and Ordering					
		Module: Number Sense Unit: Numbers to 9,999 Session: Place Value: Thousands, Hundreds, Tens, and Ones					
			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Whole Numbers to One Million				
			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Ordering and Rounding Whole Numbers				
(C) determine the value of a collection of coins and bills.	Module: Geometry and Measurement Unit: Measurement Session: Money						
		MSC2: Module: Geometry and Measurement Unit: Measurement Session: Money					

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
(2) Number, operation, and quantitative reasoning. The student uses fraction names and symbols (with denominators of 12 or less) to describe fractional parts of whole objects or sets of objects. The student is expected to:							
(A) construct concrete models of fractions;		Module: Operations with Numbers Unit: Division Session: Fractional Parts					
			Module: Fractions Unit: Proper and Improper Fractions Session: Proper Fractions				
(B) compare fractional parts of whole objects or sets of objects in a problem situation using concrete models;		Module: Operations with Numbers Unit: Division Session: Fractional Parts					
(C) use fraction names and symbols to describe fractional parts of whole objects or sets of objects; and		Module: Operations with Numbers Unit: Division Session: Fractional Parts					
			Module: Fractions Unit: Proper and Improper Fractions Session: Proper Fractions				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
(D) construct concrete models of equivalent fractions for fractional parts of whole objects.			Module: Fractions Unit: Proper and Improper Fractions Session: Proper Fractions				
			Module: Fractions Unit: Proper and Improper Fractions Session: Equivalent Fractions				
(3) Number, operation, and quantitative reasoning. The student adds and subtracts to solve meaningful problems involving whole numbers. The student is expected to:							
(A) model addition and subtraction using pictures, words, and numbers; and	Module: Addition and Subtraction Unit: Addition Session: Combining and Joining 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						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 10						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 20						
		Module: Number Sense Unit: Numbers to 999 Session: Counting by Grouping					
		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					
			Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Differences Between Large 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) select addition or subtraction and use the operation to solve problems involving whole numbers through 999.		Module: Operations with Numbers Unit: Addition and Subtraction Session: Sums Less than 100					
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Estimating and Finding Sums less than 1,000					
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Estimating and Finding Differences within 1,000					
			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Ordering and Rounding Whole Numbers				
(4) Number, operation, and quantitative reasoning. The student recognizes and solves problems in multiplication and division situations. The student is expected to:							
(A) learn and apply multiplication facts through 12 by 12 using concrete models and objects;		Module: Operations with Numbers Unit: Multiplication Session: Repeated Addition and Arrays					

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
		Module: Operations with Numbers Unit: Multiplication Session: Skip Counting to Show Multiplication					
		Module: Operations with Numbers Unit: Multiplication Session: Finding Products Less than 100					
(B) solve and record multiplication problems (up to two digits times one digit); and		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					
(C) use models to solve division problems and use number sentences to record the solutions.		Module: Operations with Numbers Unit: Division Session: Meaning of 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
		Module: Operations with Numbers Unit: Division Session: Dividing by a 1-digit Number					
(5) Number, operation, and quantitative reasoning. The student estimates to determine reasonable results. The student is expected to:							
(A) round whole numbers to the nearest ten or hundred to approximate reasonable results in problem situations; and			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Ordering and Rounding Whole Numbers				
			Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums				
(B) use strategies including rounding and compatible numbers to estimate solutions to addition and subtraction problems.	Module: Addition and Subtraction Unit: Addition Session: Sums within 20						
		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: Estimating and Finding Differences within 1,000					
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Estimating and Finding Differences within 9,999					
			Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums				
(6) Patterns, relationships, and algebraic thinking. The student uses patterns to solve problems. The student is expected to:							
(A) identify and extend whole-number and geometric patterns to make predictions and solve problems;	Module: Algebraic Thinking Unit: Patterns and Displays Session: Number Patterns						
		Module: Operations with Numbers Unit: Multiplication Session: Skip Counting to Show Multiplication					

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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: Properties and Relationships Session: Number Patterns and Properties					
			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Whole Numbers to One Million				
			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Identifying Common Factors				
(B) identify patterns in multiplication facts using concrete objects, pictorial models, or technology; and		Module: Operations with Numbers Unit: Multiplication Session: Repeated Addition and Arrays					
		Module: Operations with Numbers Unit: Multiplication Session: Skip Counting to Show Multiplication					
(C) identify patterns in related multiplication and division sentences (fact families) such as 2 x 3 = 6, 3 x 2 = 6, 6 ÷ 2 = 3, 6 ÷ 3 = 2.		Module: Operations with Numbers Unit: Multiplication Session: Repeated Addition and Arrays					

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers				
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division				
(7) Patterns, relationships, and algebraic thinking. The student uses lists, tables, and charts to express patterns and relationships. The student is expected to:							
(A) generate a table of paired numbers based on a real-life situation such as insects and legs; and		Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties					
(B) identify and describe patterns in a table of related number pairs based on a meaningful problem and extend the table.		Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties					
(8) Geometry and spatial reasoning. The student uses formal geometric vocabulary. The student is expected to identify, classify, and describe two- and three-dimensional geometric figures by their attributes. The student compares two-dimensional figures, three-dimensional figures, or both by their attributes using formal geometry vocabulary.	Module: Geometry and Measurement Unit: Geometry Session: Triangles and Rectangles						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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: Three-Dimensional Shapes						
			Module: Geometry Unit: Measurement Session: Rectangles and Squares				
(9) Geometry and spatial reasoning. The student recognizes congruence and symmetry. The student is expected to:							
(A) identify congruent two-dimensional figures;			Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids				
(B) create two-dimensional figures with lines of symmetry using concrete models and technology; and							
(C) identify lines of symmetry in two-dimensional geometric figures.							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
(10) Geometry and spatial reasoning. The student recognizes that a line can be used to represent numbers and fractions and their properties and relationships. The student is expected to locate and name points on a number line using whole numbers and fractions, including halves and fourths.		Module: Number Sense Unit: Numbers to 999 Session: Comparing and Ordering					
		Module: Number Sense Unit: Numbers to 9,999 Session: Comparing and Ordering					
			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Ordering and Rounding Whole Numbers				
(11) Measurement. The student directly compares the attributes of length, area, weight/mass, and capacity, and uses comparative language to solve problems and answer questions. The student selects and uses standard units to describe length, area, capacity/volume, and weight/mass. The student is expected to:							
(A) use linear measurement tools to estimate and measure lengths using standard units;	Module: Geometry and Measurement Unit: Measurement Session: Length						
		Module: Operations with Numbers Unit: Division Session: Meaning of 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
		Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties					
(B) use standard units to find the perimeter of a shape;			Module: Geometry Unit: Measurement Session: Rectangles and Squares				
			Module: Geometry Unit: Measurement Session: Triangles				
(C) use concrete and pictorial models of square units to determine the area of two-dimensional surfaces;		Module: Geometry and Measurement Unit: Geometry Session: Area					
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers				
			Module: Geometry Unit: Measurement Session: Rectangles and Squares				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
(D) identify concrete models that approximate standard units of weight/mass and use them to measure weight/mass;	Module: Geometry and Measurement Unit: Measurement Session: Weight						
(E) identify concrete models that approximate standard units for capacity and use them to measure capacity; and		Module: Geometry and Measurement Unit: Geometry Session: Volume					
(F) use concrete models that approximate cubic units to determine the volume of a given container or other three-dimensional geometric figure.		Module: Geometry and Measurement Unit: Geometry Session: Volume					
(12) Measurement. The student reads and writes time and measures temperature in degrees Fahrenheit to solve problems. The student is expected to:							
(A) use a thermometer to measure temperature; and		Module: Geometry and Measurement Unit: Measurement Session: Temperature					
(B) tell and write time shown on analog and digital clocks.	Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
		MSC2: Module: Geometry and Measurement Unit: Measurement Session: Money					
(13) Probability and statistics. The student solves problems by collecting, organizing, displaying, and interpreting sets of data. The student is expected to:							
(A) collect, organize, record, and display data in pictographs and bar graphs where each picture or cell might represent more than one piece of data;	Module: Algebraic Thinking Unit: Patterns and Displays Session: Tables and Graphs						
			Module: Decimals Unit: Introduction Session: Ordering and Rounding				
			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data				
(B) interpret information from pictographs and bar graphs; and	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: Decimals Unit: Introduction Session: Ordering and Rounding				
(C) use data to describe events as more likely than, less likely than, or equally likely as.			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Looking at Chance				
(14) Underlying processes and mathematical tools. The student applies Grade 3 mathematics to solve problems connected to everyday experiences and activities in and outside of school. The student is expected to:							
(A) identify the mathematics in everyday situations;	Module: Number Sense Unit: Numbers to 100 Session: Counting from 20 to 50						
	Module: Addition and Subtraction Unit: Addition Session: Comparing within 10						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 10						
	Module: Geometry and Measurement Unit: Measurement Session: Length						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Geometry and Measurement Unit: Measurement Session: Clock and Calendar Time						
	Module: Geometry and Measurement Unit: Measurement Session: Money						
		Module: Operations with Numbers Unit: Multiplication Session: Finding Products Less than 100					
		Module: Operations with Numbers Unit: Division Session: Dividing by a 1-digit Number					
		Module: Operations with Numbers Unit: Division Session: Fractional Parts					
		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
		Module: Geometry and Measurement Unit: Geometry Session: Volume					
			Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums				
			Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Differences Between Large Numbers				
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers				
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division				
			Module: Fractions Unit: Proper and Improper Fractions Session: Improper Fractions				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Geometry Unit: Coordinate Geometry and Algebra Session: The Coordinate Plane				
			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data				
			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Looking at Chance				
(B) solve problems that incorporate understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness;							
(C) select or develop an appropriate problem-solving plan or strategy, including drawing a picture, looking for a pattern, systematic guessing and checking, acting it out, making a table, working a simpler problem, or working backwards to solve a problem; and							
(D) use tools such as real objects, manipulatives, and technology to solve problems.	Module: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Addition and Subtraction Unit: 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						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 10						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 20						
	Module: Geometry and Measurement Unit: Measurement Session: Length						

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
	Module: Geometry and Measurement Unit: Measurement Session: Weight						
		Module: Number Sense Unit: Numbers to 999 Session: Counting by Grouping					
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Sums Less than 100					
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Estimating and Finding Sums less than 1,000					
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Differences within 100					
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Estimating and Finding Differences within 9,999					

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

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
		Module: Geometry and Measurement Unit: Geometry Session: Area					
		Module: Geometry and Measurement Unit: Geometry Session: Volume					
		Module: Geometry and Measurement Unit: Measurement Session: Time					
		MSC2: Module: Geometry and Measurement Unit: Measurement Session: Money					
			Module: Operations with Numbers Unit: The Integers Session: Differences Between Integers				
			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
			Module: Geometry Unit: Measurement Session: Lines, Angles, and Circles				
			Module: Geometry Unit: Measurement Session: Rectangles and Squares				
			Module: Geometry Unit: Measurement Session: Triangles				
			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data				
(15) Underlying processes and mathematical tools. The student communicates about Grade 3 mathematics using informal language. The student is expected to:							
(A) explain and record observations using objects, words, pictures, numbers, and technology; and							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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) relate informal language to mathematical language and symbols	Module: Number Sense Unit: Comparing and Ordering Session: Comparing Numbers within 100						
	Module: Addition and Subtraction Unit: Addition Session: Combining and Joining within 10						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 10						
	Module: Addition and Subtraction Unit: Subtraction Session: Differences within 20						
	Module: Geometry and Measurement Unit: Measurement Session: Money						
		Module: Operations with Numbers Unit: Multiplication Session: Skip Counting to Show Multiplication					

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
		Module: Operations with Numbers Unit: Division Session: Meaning of Division					
		MSC2: Module: Geometry and Measurement Unit: Measurement Session: Money					
		Module: Geometry and Measurement Unit: Measurement Session: Temperature					
		Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties					
			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Ordering and Rounding Whole Numbers				
			Module: Geometry Unit: Measurement Session: Lines, Angles, and Circles				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Geometry Unit: Measurement Session: Rectangles and Squares				
			Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids				
(16) Underlying processes and mathematical tools. The student uses logical reasoning to make sense of his or her world. The student is expected to:							
(A) make generalizations from patterns or sets of examples and nonexamples; and	Module: Algebraic Thinking Unit: Patterns and Displays Session: Number Patterns						
		Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties					
(B) justify why an answer is reasonable and explain the solution process.							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
Grade 4							
(1) Number, operation, and quantitative reasoning. The student uses place value to represent whole numbers and decimals. The student is expected to:							
(A) use place value to read, write, compare, and order whole numbers through 999,999,999; and		Module: Number Sense Unit: Numbers to 9,999 Session: Comparing and Ordering					
			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Whole Numbers to One Million				
			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Ordering and Rounding Whole Numbers				
(B) use place value to read, write, compare, and order decimals involving tenths and hundredths, including money, using concrete objects and pictorial models.			Module: Decimals Unit: Introduction Session: Tenths, Hundredths, and Thousandths				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Decimals Unit: Introduction Session: Ordering and Rounding				
				Module: Decimals Unit: Adding and Subtracting Decimals Session: Using Place Value Grids			
(2) Number, operation, and quantitative reasoning. The student describes and compares fractional parts of whole objects or sets of objects. The student is expected to:							
(A) use concrete objects and pictorial models to generate equivalent fractions;		Module: Operations with Numbers Unit: Division Session: Fractional Parts					
			Module: Fractions Unit: Proper and Improper Fractions Session: Proper Fractions				
			Module: Fractions Unit: Proper and Improper Fractions Session: Improper Fractions				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Fractions Unit: Proper and Improper Fractions Session: Equivalent Fractions				
(B) model fraction quantities greater than one using concrete objects and pictorial models;			Module: Fractions Unit: Proper and Improper Fractions Session: Improper Fractions				
				Module: Fractions Unit: Essentials of Fractions Session: Exploring Proper and Improper Fractions			
				Module: Fractions Unit: Essentials of Fractions Session: Working with Mixed Numbers			
(C) compare and order fractions using concrete objects and pictorial models; and			Module: Fractions Unit: Proper and Improper Fractions Session: Ordering and Rounding Fractions				
				Module: Fractions Unit: Essentials of Fractions Session: Exploring Proper and Improper Fractions			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Fractions Unit: Essentials of Fractions Session: Working with Mixed Numbers			
(D) relate decimals to fractions that name tenths and hundredths using concrete objects and pictorial models.			Module: Decimals Unit: Introduction Session: Tenths, Hundredths, and Thousandths				
			Module: Decimals Unit: Introduction Session: Ordering and Rounding				
(3) Number, operation, and quantitative reasoning. The student adds and subtracts to solve meaningful problems involving whole numbers and decimals. The student is expected to:							
(A) use addition and subtraction to solve problems involving whole numbers; and			Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums				
			Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Differences Between Large Numbers				
(B) add and subtract decimals to the hundredths place using concrete objects and pictorial models.			Module: Decimals Unit: Addition and Subtraction Session: Adding Decimals				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Decimals Unit: Addition and Subtraction Session: Subtracting Decimals				
(4) Number, operation, and quantitative reasoning. The student multiplies and divides to solve meaningful problems involving whole numbers. The student is expected to:							
(A) model factors and products using arrays and area models;		Module: Operations with Numbers Unit: Multiplication Session: Repeated Addition and Arrays					
		Module: Operations with Numbers Unit: Multiplication Session: Finding Products Less than 100					
			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Finding Factors				
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division				
(B) represent multiplication and division situations in picture, word, and number form;		Module: Operations with Numbers Unit: Multiplication Session: Finding Products Less than 100					
		Module: Operations with Numbers Unit: Division Session: Dividing by a 1-digit Number					
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers				
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division				
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Divisors				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
(C) recall and apply multiplication facts through 12 x 12;		Module: Operations with Numbers Unit: Multiplication Session: Finding Products Less than 100					
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers				
(D) use multiplication to solve problems (no more than two digits times two digits without technology); and		Module: Operations with Numbers Unit: Multiplication Session: Finding Products Less than 100					
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers				
(E) use division to solve problems (no more than one-digit divisors and three-digit dividends without technology).		Module: Operations with Numbers Unit: Division Session: Dividing by a 1-digit Number					
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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) Number, operation, and quantitative reasoning. The student estimates to determine reasonable results. The student is expected to:							
(A) round whole numbers to the nearest ten, hundred, or thousand to approximate reasonable results in problem situations; and			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Ordering and Rounding Whole Numbers				
			Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums				
(B) use strategies including rounding and compatible numbers to estimate solutions to multiplication and division problems.		Module: Operations with Numbers Unit: Multiplication Session: Skip Counting to Show Multiplication					
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division				
(6) Patterns, relationships, and algebraic thinking. The student uses patterns in multiplication and division. The student is expected to:							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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 patterns and relationships to develop strategies to remember basic multiplication and division facts (such as the patterns in related multiplication and division number sentences (fact families) such as 9 x 9 = 81 and 81 ÷ 9 = 9); and		Module: Operations with Numbers Unit: Multiplication Session: Finding Products Less than 100					
			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Finding Factors				
(B) use patterns to multiply by 10 and 100.		Module: Operations with Numbers Unit: Multiplication Session: Skip Counting to Show Multiplication					
			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Whole Numbers to One Million				
(7) Patterns, relationships, and algebraic thinking. The student uses organizational structures to analyze and describe patterns and relationships. The student is expected to describe the relationship between two sets of related data such as ordered pairs in a table.		Module: Operations with Numbers Unit: Multiplication Session: Finding Products Less than 100					
		Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties					

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
(8) Geometry and spatial reasoning. The student identifies and describes attributes of geometric figures using formal geometric language. The student is expected to:							
(A) identify and describe right, acute, and obtuse angles;			Module: Geometry Unit: Measurement Session: Lines, Angles, and Circles				
			Module: Geometry Unit: Measurement Session: Rectangles and Squares				
(B) identify and describe parallel and intersecting (including perpendicular) lines using concrete objects and pictorial models; and			Module: Geometry Unit: Measurement Session: Rectangles and Squares				
(C) use essential attributes to define two- and three-dimensional geometric figures.		Module: Geometry and Measurement Unit: Geometry Session: Volume					
(9) Geometry and spatial reasoning. The student connects transformations to congruence and symmetry. The student is expected to:							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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) demonstrate translations, reflections, and rotations using concrete models;			Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations				
(B) use translations, reflections, and rotations to verify that two shapes are congruent; and			Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations				
(C) use reflections to verify that a shape has symmetry.			Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations				
(10) Geometry and spatial reasoning. The student recognizes the connection between numbers and their properties and points on a line. The student is expected to locate and name points on a number line using whole numbers, fractions such as halves and fourths, and decimals such as tenths.		Module: Number Sense Unit: Numbers to 9,999 Session: Comparing and Ordering					
			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Ordering and Rounding Whole Numbers				
			Module: Fractions Unit: Proper and Improper Fractions Session: Proper Fractions				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Fractions Unit: Proper and Improper Fractions Session: Improper Fractions				
(11) Measurement. The student applies measurement concepts. The student is expected to estimate and measure to solve problems involving length (including perimeter) and area. The student uses measurement tools to measure capacity/volume and weight/mass. The student is expected to:							
(A) estimate and use measurement tools to determine length (including perimeter), area, capacity and weight/mass using standard units SI (metric) and customary;	Module: Geometry and Measurement Unit: Measurement Session: Length						
		Module: Operations with Numbers Unit: Multiplication Session: Skip Counting to Show Multiplication					
		Module: Geometry and Measurement Unit: Geometry Session: Area					
			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Finding Factors				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers				
			Module: Geometry Unit: Measurement Session: Rectangles and Squares				
(B) perform simple conversions between different units of length, between different units of capacity, and between different units of weight within the customary measurement system;							
(C) use concrete models of standard cubic units to measure volume;		Module: Geometry and Measurement Unit: Geometry Session: Volume					
(D) estimate volume in cubic units; and		Module: Geometry and Measurement Unit: Geometry Session: Volume					
(E) explain the difference between weight and mass.							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
(12) Measurement. The student applies measurement concepts. The student measures time and temperature (in degrees Fahrenheit and Celsius). The student is expected to:							
(A) use a thermometer to measure temperature and changes in temperature; and		Module: Geometry and Measurement Unit: Measurement Session: Temperature					
(B) use tools such as a clock with gears or a stopwatch to solve problems involving elapsed time.							
(13) Probability and statistics. The student solves problems by collecting, organizing, displaying, and interpreting sets of data. The student is expected to:							
(A) use concrete objects or pictures to make generalizations about determining all possible combinations of a given set of data or of objects in a problem situation; and			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Looking at Chance				
(B) interpret bar graphs.					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Bar Graphs		
(14) Underlying processes and mathematical tools. The student applies Grade 4 mathematics to solve problems connected to everyday experiences and activities in and outside of school. The student is expected to:							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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) identify the mathematics in everyday situations;		Module: Operations with Numbers Unit: Addition and Subtraction Session: Estimating and Finding Sums less than 1,000					
		Module: Operations with Numbers Unit: Multiplication Session: Finding Products Less than 100					
		Module: Operations with Numbers Unit: Division Session: Dividing by a 1-digit Number					
		Module: Operations with Numbers Unit: Division Session: Fractional Parts					
		Module: Geometry and Measurement Unit: Geometry Session: Area					
		Module: Geometry and Measurement Unit: Geometry Session: Volume					

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
		Module: Geometry and Measurement Unit: Measurement Session: Time					
		MSC2: Module: Geometry and Measurement Unit: Measurement Session: Money					
		Module: Geometry and Measurement Unit: Measurement Session: Temperature					
			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Ordering and Rounding Whole Numbers				
			Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums				
			Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Differences Between Large Numbers				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers				
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division				
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Divisors				
			Module: Fractions Unit: Proper and Improper Fractions Session: Improper Fractions				
			Module: Fractions Unit: Proper and Improper Fractions Session: Equivalent Fractions				
			Module: Fractions Unit: Proper and Improper Fractions Session: Ordering and Rounding Fractions				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Fractions Unit: Addition and Subtraction Session: Sums involving Like Denominators				
			Module: Fractions Unit: Addition and Subtraction Session: Differences involving Like Denominators				
			Module: Decimals Unit: Introduction Session: Tenths, Hundredths, and Thousandths				
			Module: Decimals Unit: Introduction Session: Ordering and Rounding				
			Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents				
			Module: Decimals Unit: Addition and Subtraction Session: Adding Decimals				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Decimals Unit: Addition and Subtraction Session: Subtracting Decimals				
			Module: Geometry Unit: Coordinate Geometry and Algebra Session: The Coordinate Plane				
			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data				
			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Looking at Chance				
(B) solve problems that incorporate understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness;							
(C) select or develop an appropriate problem-solving plan or strategy, including drawing a picture, looking for a pattern, systematic guessing and checking, acting it out, making a table, working a simpler problem, or working backwards to solve a problem; and							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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) use tools such as real objects, manipulatives, and technology to solve problems.		Module: Number Sense Unit: Numbers to 999 Session: Counting by Grouping					
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Sums Less than 100					
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Estimating and Finding Sums less than 1,000					
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Differences within 100					
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Estimating and Finding Differences within 1,000					
		Module: Operations with Numbers Unit: Addition and Subtraction Session: Estimating and Finding Differences within 9,999					

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

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
		Module: Geometry and Measurement Unit: Geometry Session: Area					
			Module: Operations with Numbers Unit: The Integers Session: Differences Between Integers				
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division				
			Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents				
			Module: Geometry Unit: Measurement Session: Lines, Angles, and Circles				
			Module: Geometry Unit: Measurement Session: Rectangles and Squares				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Geometry Unit: Measurement Session: Triangles				
			Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids				
			Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations				
			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data				
(15) Underlying processes and mathematical tools. The student communicates about Grade 4 mathematics using informal language. The student is expected to:							
(A) explain and record observations using objects, words, pictures, numbers, and technology; and							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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) relate informal language to mathematical language and symbols.		Module: Operations with Numbers Unit: Multiplication Session: Skip Counting to Show Multiplication					
		Module: Operations with Numbers Unit: Division Session: Meaning of Division					
		MSC2: Module: Geometry and Measurement Unit: Measurement Session: Money					
		Module: Geometry and Measurement Unit: Measurement Session: Temperature					
		Module: Algebraic Thinking Unit: Properties and Relationships Session: Number Patterns and Properties					
			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Ordering and Rounding Whole Numbers				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Geometry Unit: Measurement Session: Lines, Angles, and Circles				
			Module: Geometry Unit: Measurement Session: Rectangles and Squares				
			Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids				
				Module: Fractions Unit: Essentials of Fractions Session: Recognizing a Fraction			
(16) Underlying processes and mathematical tools. The student uses logical reasoning. The student is expected to:							
(A) make generalizations from patterns or sets of examples and nonexamples; and			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: Numbers and Number Sense Unit: Numbers as Factors Session: Identifying Common Factors				
(B) justify why an answer is reasonable and explain the solution process.							
Grade 5							
(1) Number, operation, and quantitative reasoning. The student uses place value to represent whole numbers and decimals. The student is expected to:							
(A) use place value to read, write, compare, and order whole numbers through the 999,999,999,999; and			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Whole Numbers to One Million				
			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Ordering and Rounding Whole Numbers				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
(B) use place value to read, write, compare, and order decimals through the thousandths place.			Module: Decimals Unit: Introduction Session: Tenths, Hundredths, and Thousandths				
			Module: Decimals Unit: Introduction Session: Ordering and Rounding				
(2) Number, operation, and quantitative reasoning. The student uses fractions in problemsolving situations. The student is expected to:							
(A) generate a fraction equivalent to a given fraction such as 1/2 and 3/6 or 4/12 and 1/3;			Module: Fractions Unit: Proper and Improper Fractions Session: Proper Fractions				
			Module: Fractions Unit: Proper and Improper Fractions Session: Improper Fractions				
			Module: Fractions Unit: Proper and Improper Fractions Session: Equivalent Fractions				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Fractions Unit: Essentials of Fractions Session: Exploring Proper and Improper Fractions			
				Module: Fractions Unit: Equivalent Fractions Session: Identifying the Factors of a Number			
				Module: Fractions Unit: Equivalent Fractions Session: Expressing Fractions in Lowest Terms			
				Module: Fractions Unit: Equivalent Fractions Session: Writing and Comparing Equivalent Fractions			
(B) generate a mixed number equivalent to a given improper fraction or generate an improper fraction equivalent to a given mixed number;			Module: Fractions Unit: Proper and Improper Fractions Session: Equivalent Fractions				
				Module: Fractions Unit: Essentials of Fractions Session: Exploring Proper and Improper Fractions			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Fractions Unit: Essentials of Fractions Session: Working with Mixed Numbers			
				Module: Fractions Unit: Equivalent Fractions Session: Writing and Comparing Equivalent Fractions			
(C) compare two fractional quantities in problem-solving situations using a variety of methods, including common denominators; and			Module: Fractions Unit: Proper and Improper Fractions Session: Ordering and Rounding Fractions				
				Module: Fractions Unit: Equivalent Fractions Session: Writing and Comparing Equivalent Fractions			
(D) use models to relate decimals to fractions that name tenths, hundredths, and thousandths.			Module: Decimals Unit: Introduction Session: Tenths, Hundredths, and Thousandths				
			Module: Decimals Unit: Addition and Subtraction Session: Adding Decimals				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
(3) Number, operation, and quantitative reasoning. The student adds, subtracts, multiplies, and divides to solve meaningful problems. The student is expected to:							
(A) use addition and subtraction to solve problems involving whole numbers and decimals;			Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums				
			Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Differences Between Large Numbers				
			Module: Decimals Unit: Addition and Subtraction Session: Adding Decimals				
			Module: Decimals Unit: Addition and Subtraction Session: Subtracting Decimals				
				Module: Decimals Unit: Adding and Subtracting Decimals Session: Regrouping with Whole Numbers			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Decimals Unit: Adding and Subtracting Decimals Session: Regrouping to Hundredths			
(B) use multiplication to solve problems involving whole numbers (no more than three digits times two digits without technology);			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers				
(C) use division to solve problems involving whole numbers (no more than two-digit divisors and three-digit dividends without technology), including interpreting the remainder within a given context;			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division				
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Divisors				
(D) identify common factors of a set of whole numbers; and			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Finding Factors				
			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Prime and Composite Numbers				
			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Identifying Common Factors				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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) model situations using addition and/or subtraction involving fractions with like denominators using concrete objects, pictures, words, and numbers.			Module: Fractions Unit: Addition and Subtraction Session: Sums involving Like Denominators				
			Module: Fractions Unit: Addition and Subtraction Session: Differences involving Like Denominators				
				Module: Fractions Unit: Adding Fractions Session: Adding with Like Denominators			
				Module: Fractions Unit: Subtracting Fractions Session: Subtracting with Like Denominators			
(4) Number, operation, and quantitative reasoning. The student estimates to determine reasonable results. The student is expected to use strategies, including rounding and compatible numbers to estimate solutions to addition, subtraction, multiplication, and division problems.			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Ordering and Rounding Whole Numbers				
			Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division				
			Module: Fractions Unit: Proper and Improper Fractions Session: Ordering and Rounding Fractions				
			Module: Decimals Unit: Addition and Subtraction Session: Adding Decimals				
			Module: Decimals Unit: Addition and Subtraction Session: Subtracting Decimals				
				Module: Decimals Unit: Essentials of Decimals Session: Rounding Decimals			
(5) Patterns, relationships, and algebraic thinking. The student makes generalizations based on observed patterns and relationships. The student is expected to:							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
(A) describe the relationship between sets of data in graphic organizers such as lists, tables, charts, and diagrams; and			Module: Fractions Unit: Proper and Improper Fractions Session: Proper Fractions				
			Module: Fractions Unit: Proper and Improper Fractions Session: Equivalent Fractions				
			Module: Decimals Unit: Introduction Session: Ordering and Rounding				
			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data				
			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Looking at Chance				
(B) identify prime and composite numbers using concrete objects, pictorial models, and patterns in factor pairs.			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Finding Factors				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Prime and Composite Numbers				
			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Identifying Common Factors				
(6) Patterns, relationships, and algebraic thinking. The student describes relationships mathematically. The student is expected to select from and use diagrams and equations such as y = 5 + 3 to represent meaningful problem situations.			Module: Decimals Unit: Introduction Session: Ordering and Rounding				
			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data				
(7) Geometry and spatial reasoning. The student generates geometric definitions using critical attributes. The student is expected to identify essential attributes including parallel, perpendicular, and congruent parts of two- and three-dimensional geometric figures.		Module: Geometry and Measurement Unit: Geometry Session: Volume					
			Module: Geometry Unit: Measurement Session: Rectangles and Squares				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids				
(8) Geometry and spatial reasoning. The student models transformations. The student is expected to:							
(A) sketch the results of translations, rotations, and reflections on a Quadrant I coordinate grid; and			Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations				
(B) identify the transformation that generates one figure from the other when given two congruent figures on a Quadrant I coordinate grid.			Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations				
(9) Geometry and spatial reasoning. The student recognizes the connection between ordered pairs of numbers and locations of points on a plane. The student is expected to locate and name points on a coordinate grid using ordered pairs of whole numbers.			Module: Geometry Unit: Coordinate Geometry and Algebra Session: The Coordinate Plane				
			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
(10) Measurement. The student applies measurement concepts involving length (including perimeter), area, capacity/volume, and weight/mass to solve problems. The student is expected to:							
(A) perform simple conversions within the same measurement system (SI (metric) or customary);		Module: Geometry and Measurement Unit: Geometry Session: Volume					
(B) connect models for perimeter, area, and volume with their respective formulas; and			Module: Geometry Unit: Measurement Session: Rectangles and Squares				
			Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids				
(C) select and use appropriate units and formulas to measure length, perimeter, area, and volume.			Module: Geometry Unit: Measurement Session: Rectangles and Squares				
			Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids				
(11) Measurement. The student applies measurement concepts. The student measures time and temperature (in degrees Fahrenheit and Celsius). The student is expected to:							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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 problems involving changes in temperature; and							
(B) solve problems involving elapsed time.							
(12) Probability and statistics. The student describes and predicts the results of a probability experiment. The student is expected to:							
(A) use fractions to describe the results of an experiment;			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Looking at Chance				
					Module: Fundamentals of Probability Unit: Simple Probability Session: Defining & Expressing Probability		
					Module: Fundamentals of Probability Unit: Simple Probability Session: Calculating Probabilities on a Color Wheel		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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: Simple Probability Session: Determining Probabilities of Complementary Events		
(B) use experimental results to make predictions; and			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Looking at Chance				
					Module: Fundamentals of Probability Unit: Simple Probability Session: Defining & Expressing Probability		
					Module: Fundamentals of Probability Unit: Simple Probability Session: Calculating Probabilities on a Color Wheel		
(C) list all possible outcomes of a probability experiment such as tossing a coin.					Module: Fundamentals of Probability Unit: Simple Probability Session: Defining & Expressing Probability		
					Module: Fundamentals of Probability Unit: Simple Probability Session: Calculating Probabilities on a Color Wheel		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
(13) Probability and statistics. The student solves problems by collecting, organizing, displaying, and interpreting sets of data. The student is expected to:							
(A) use tables of related number pairs to make line graphs;			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data				
(B) describe characteristics of data presented in tables and graphs including median, mode, and range; and			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data				
					Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Defining the Mean & Median		
					Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Defining the Mode		
					Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Calculating the Mean, Median, & Mode		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
(C) graph a given set of data using an appropriate graphical representation such as a picture or line graph.			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data				
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Line Graphs		
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Bar Graphs		
(14) Underlying processes and mathematical tools. The student applies Grade 5 mathematics to solve problems connected to everyday experiences and activities in and outside of school. The student is expected to:							
(A) identify the mathematics in everyday situations;			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Ordering and Rounding Whole Numbers				
			Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums				
			Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Differences Between Large Numbers				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers				
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division				
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Divisors				
			Module: Fractions Unit: Proper and Improper Fractions Session: Improper Fractions				
			Module: Fractions Unit: Proper and Improper Fractions Session: Equivalent Fractions				
			Module: Fractions Unit: Proper and Improper Fractions Session: Ordering and Rounding Fractions				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Fractions Unit: Addition and Subtraction Session: Sums involving Like Denominators				
			Module: Fractions Unit: Addition and Subtraction Session: Differences involving Like Denominators				
			Module: Fractions Unit: Addition and Subtraction Session: Working with Unlike Denominators				
			Module: Fractions Unit: Multiplication and Division Session: Finding Products				
			Module: Decimals Unit: Introduction Session: Tenths, Hundredths, and Thousandths				
			Module: Decimals Unit: Introduction Session: Ordering and Rounding				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents				
(B) solve problems that incorporate understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness;			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Introduction to Long Division				
			Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents				
			Module: Geometry Unit: Measurement Session: Lines, Angles, and Circles				
			Module: Geometry Unit: Measurement Session: Rectangles and Squares				
			Module: Geometry Unit: Measurement Session: Triangles				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data				
(C) select or develop an appropriate problem-solving plan or strategy, including drawing a picture, looking for a pattern, systematic guessing and checking, acting it out, making a table, working a simpler problem, or working backwards to solve a problem; and							
(D) use tools such as real objects, manipulatives, and technology to solve problems.							
(15) Underlying processes and mathematical tools. The student communicates about Grade 5 mathematics using informal language. The student is expected to:							
(A) explain and record observations using objects, words, pictures, numbers, and technology; and							
(B) relate informal language to mathematical language and symbols.							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
(16) Underlying processes and mathematical tools. The student uses logical reasoning. The student is expected to:							
(A) make generalizations from patterns or sets of examples and nonexamples; and			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Whole Numbers to One Million				
			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Identifying Common Factors				
			Module: Fractions Unit: Proper and Improper Fractions Session: Proper Fractions				
			Module: Fractions Unit: Multiplication and Division Session: Quotients and Remainders				
(B) justify why an answer is reasonable and explain the solution process.							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
Grade 6							
(1) Number, operation, and quantitative reasoning. The student represents and uses rational numbers in a variety of equivalent forms. The student is expected to:							
(A) compare and order non-negative rational numbers;			Module: Fractions Unit: Proper and Improper Fractions Session: Proper Fractions				
			Module: Fractions Unit: Proper and Improper Fractions Session: Improper Fractions				
			Module: Fractions Unit: Proper and Improper Fractions Session: Ordering and Rounding Fractions				
			Module: Decimals Unit: Introduction Session: Tenths, Hundredths, and Thousandths				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Decimals Unit: Introduction Session: Ordering and Rounding				
				Module: Fractions Unit: Essentials of Fractions Session: Recognizing a Fraction			
				Module: Fractions Unit: Essentials of Fractions Session: Exploring Proper and Improper Fractions			
				Module: Fractions Unit: Essentials of Fractions Session: Working with Mixed Numbers			
				Module: Fractions Unit: Equivalent Fractions Session: Expressing Fractions in Lowest Terms			
				Module: Fractions Unit: Equivalent Fractions Session: Writing and Comparing Equivalent Fractions			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Percents Unit: Essentials of Percents Session: Investigating the Meaning of Percent			
(B) generate equivalent forms of rational numbers including whole numbers, fractions, and decimals;			Module: Fractions Unit: Proper and Improper Fractions Session: Equivalent Fractions				
			Module: Decimals Unit: Introduction Session: Ordering and Rounding				
				Module: Fractions Unit: Essentials of Fractions Session: Recognizing a Fraction			
				Module: Fractions Unit: Equivalent Fractions Session: Writing and Comparing Equivalent Fractions			
				Module: Decimals Unit: Essentials of Decimals Session: Exploring Repeating and Terminating Decimals			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Percents Unit: Essentials of Percents Session: Expressing Percents as Proper Fractions			
					Module: Ratio & Proportion Unit: Ratio Session: Expressing Ratios as Equivalent Fractions & Decimals		
(C) use integers to represent real-life situations;				Module: Integers and Order of Operations Unit: Adding and Subtracting Signed Numbers Session: Exploring the Number Line and Absolute Value			
				Module: Integers and Order of Operations Unit: Adding and Subtracting Signed Numbers Session: Adding with Absolute Value			
				Module: Integers and Order of Operations Unit: Adding and Subtracting Signed Numbers Session: Subtracting with Absolute Value			
(D) write prime factorizations using exponents;			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Prime and Composite Numbers				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Identifying Common Factors				
(E) identify factors of a positive integer, common factors, and the greatest common factor of a set of positive integers; and			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Finding Factors				
			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Prime and Composite Numbers				
			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Identifying Common Factors				
				Module: Fractions Unit: Equivalent Fractions Session: Identifying the Factors of a Number			
(F) identify multiples of a positive integer and common multiples and the least common multiple of a set of positive integers.			Module: Fractions Unit: Proper and Improper Fractions Session: Ordering and Rounding Fractions				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Fractions Unit: Adding Fractions Session: Adding with Unlike Denominators			
(2) Number, operation, and quantitative reasoning. The student adds, subtracts, multiplies, and divides to solve problems and justify solutions. The student is expected to:							
(A) model addition and subtraction situations involving fractions with objects, pictures, words, and numbers;			Module: Fractions Unit: Addition and Subtraction Session: Sums involving Like Denominators				
			Module: Fractions Unit: Addition and Subtraction Session: Differences involving Like Denominators				
			Module: Fractions Unit: Addition and Subtraction Session: Working with Unlike Denominators				
				Module: Fractions Unit: Adding Fractions Session: Adding with Like Denominators			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Fractions Unit: Adding Fractions Session: Adding with Unlike Denominators			
				Module: Fractions Unit: Adding Fractions Session: Solving Missing Value Problems when Adding Fractions			
				Module: Fractions Unit: Subtracting Fractions Session: Subtracting with Like Denominators			
				Module: Fractions Unit: Subtracting Fractions Session: Subtracting with Unlike Denominators			
				Module: Fractions Unit: Subtracting Fractions Session: Solving Missing Value Problems when Subtracting Fractions			
(B) use addition and subtraction to solve problems involving fractions and decimals;			Module: Fractions Unit: Addition and Subtraction Session: Sums involving Like Denominators				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Fractions Unit: Addition and Subtraction Session: Differences involving Like Denominators				
			Module: Fractions Unit: Addition and Subtraction Session: Working with Unlike Denominators				
			Module: Decimals Unit: Addition and Subtraction Session: Adding Decimals				
			Module: Decimals Unit: Addition and Subtraction Session: Subtracting Decimals				
				Module: Fractions Unit: Adding Fractions Session: Adding with Like Denominators			
				Module: Fractions Unit: Adding Fractions Session: Adding with Unlike Denominators			

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

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Decimals Unit: Adding and Subtracting Decimals Session: Regrouping to Hundredths			
(C) use multiplication and division of whole numbers to solve problems including situations involving equivalent ratios and rates;			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Finding Factors				
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Multipliers				
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Divisors				
					Module: Ratio & Proportion Unit: Ratio Session: Defining Ratio		
					Module: Ratio & Proportion Unit: Ratio Session: Expressing Ratios as Equivalent Fractions & Decimals		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
(D) estimate and round to approximate reasonable results and to solve problems where exact answers are not required; and			Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Whole Number Sums				
			Module: Operations with Numbers Unit: Addition and Subtraction of Whole Numbers Session: Differences Between Large Numbers				
			Module: Operations with Numbers Unit: Multiplication and Division of Whole Numbers Session: Two-Digit Divisors				
			Module: Fractions Unit: Addition and Subtraction Session: Sums involving Like Denominators				
			Module: Fractions Unit: Addition and Subtraction Session: Differences 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
			Module: Decimals Unit: Addition and Subtraction Session: Adding Decimals				
			Module: Decimals Unit: Addition and Subtraction Session: Subtracting Decimals				
				Module: Fractions Unit: Adding Fractions Session: Adding with Like Denominators			
				Module: Decimals Unit: Essentials of Decimals Session: Rounding Decimals			
				Module: Decimals Unit: Essentials of Decimals Session: Exploring Repeating and Terminating Decimals			
				Module: Decimals Unit: Adding and Subtracting Decimals Session: Using Place Value Grids			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Decimals Unit: Adding and Subtracting Decimals Session: Regrouping to Hundredths			
(E) use order of operations to simplify whole number expressions (without exponents) in problem solving situations.				Module: Integers and Order of Operations Unit: Order of Operations Session: Simplifying Expressions			
				Module: Integers and Order of Operations Unit: Order of Operations Session: Introducing the Distributive Property			
				Module: Integers and Order of Operations Unit: Order of Operations Session: Using Grouping Symbols			
(3) Patterns, relationships, and algebraic thinking. The student solves problems involving direct proportional relationships. The student is expected to:							
(A) use ratios to describe proportional situations;			Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Ratio & Proportion Unit: Ratio Session: Defining Ratio		
					Module: Ratio & Proportion Unit: Ratio Session: Expressing Ratios as Equivalent Fractions & Decimals		
					Module: Ratio & Proportion Unit: Ratio Session: Forming Ratios between Unlike Quantities		
					Module: Ratio & Proportion Unit: Proportion Session: Defining a Proportion		
					Module: Ratio & Proportion Unit: Proportion Session: Solving for a Variable in a Proportion		
					Module: Ratio & Proportion Unit: Proportion Session: Applying the Means/Extremes Property		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Ratio & Proportion Unit: Direct & Inverse Variation Session: Exploring & Solving Direct Variation Problems		
					Module: Ratio & Proportion Unit: Direct & Inverse Variation Session: Exploring Inverse Variation		
					Module: Ratio & Proportion Unit: Direct & Inverse Variation Session: Solving Inverse Variation Problems		
(B) represent ratios and percents with concrete models, fractions, and decimals; and			Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents				
				Module: Percents Unit: Essentials of Percents Session: Investigating the Meaning of Percent			
				Module: Percents Unit: Essentials of Percents Session: Expressing Percents as Proper Fractions			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Percents Unit: Essentials of Percents Session: Expressing Percents greater than 100% as Improper Fractions			
				Module: Percents Unit: Finding Percents of Quantities Session: Finding Percents of a Whole			
				Module: Percents Unit: Finding Percents of Quantities Session: Expressing Ratios as Percents			
				Module: Percents Unit: Finding Percents of Quantities Session: Calculating the Whole from a Part and a Percent			
					Module: Ratio & Proportion Unit: Ratio Session: Expressing Ratios as Equivalent Fractions & Decimals		
(C) use ratios to make predictions in proportional situations.					Module: Ratio & 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 & Proportion Unit: Proportion Session: Solving for a Variable in a Proportion		
(4) Patterns, relationships, and algebraic thinking. The student uses letters as variables in mathematical expressions to describe how one quantity changes when a related quantity changes. The student is expected to:							
(A) use tables and symbols to represent and describe proportional and other relationships such as those involving conversions, arithmetic sequences (with a constant rate of change), perimeter and area; and					Module: Ratio & Proportion Unit: Proportion Session: Defining a Proportion		
					Module: Ratio & Proportion Unit: Proportion Session: Solving for a Variable in a Proportion		
					Module: Ratio & Proportion Unit: Proportion Session: Applying the Means/Extremes Property		
					Module: Ratio & Proportion Unit: Similar Polygons Session: Defining Similarity		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Ratio & Proportion Unit: Similar Polygons Session: Identifying Equivalent Ratios		
					Module: Ratio & Proportion Unit: Similar Polygons Session: Setting up & Solving Proportions in Similar Polygons		
(B) use tables of data to generate formulas representing relationships involving perimeter, area, volume of a rectangular prism, etc.							
(5) Patterns, relationships, and algebraic thinking. The student uses letters to represent an unknown in an equation. The student is expected to formulate equations from problem situations described by linear relationships.			Module: Geometry Unit: Measurement Session: Rectangles and Squares				
			Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids				
				Module: Fractions Unit: Subtracting Fractions Session: Subtracting with Unlike Denominators			
					Module: Essentials of Algebra Unit: Algebra Fundamentals Session: Introducing Variables		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
(6) Geometry and spatial reasoning. The student uses geometric vocabulary to describe angles, polygons, and circles. The student is expected to:							
(A) use angle measurements to classify angles as acute, obtuse, or right;			Module: Geometry Unit: Measurement Session: Lines, Angles, and Circles				
			Module: Geometry Unit: Measurement Session: Rectangles and Squares				
			Module: Geometry Unit: Measurement Session: Triangles				
					Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Naming and Measuring Angles		
(B) identify relationships involving angles in triangles and quadrilaterals; and			Module: Geometry Unit: Measurement Session: Rectangles and Squares				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Geometry Unit: Measurement Session: Triangles				
					Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Naming and Measuring Angles		
					Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Angles		
(C) describe the relationship between radius, diameter, and circumference of a circle.							
(7) Geometry and spatial reasoning. The student uses coordinate geometry to identify location in two dimensions. The student is expected to locate and name points on a coordinate plane using ordered pairs of non-negative rational numbers.			Module: Geometry Unit: Coordinate Geometry and Algebra Session: The Coordinate Plane				
			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
(8) Measurement. The student solves application problems involving estimation and measurement of length, area, time, temperature, volume, weight, and angles. The student is expected to:							
(A) estimate measurements (including circumference) and evaluate reasonableness of results;							
(B) select and use appropriate units, tools, or formulas to measure and to solve problems involving length (including perimeter), area, time, temperature, volume, and weight;			Module: Numbers and Number Sense Unit: Numbers as Factors Session: Finding Factors				
			Module: Geometry Unit: Measurement Session: Rectangles and Squares				
			Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids				
				Module: Decimals Unit: Multiplying Decimals Session: Finding the Volume of a Prism			
					Module: Fundamentals of Geometry Unit: Triangles Session: Exploring the Area of a Triangle		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume of a Right Triangular Prism		
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Surface Area of a Right Triangular Prism		
(C) measure angles; and			Module: Geometry Unit: Measurement Session: Lines, Angles, and Circles				
			Module: Geometry Unit: Measurement Session: Triangles				
					Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Naming and Measuring Angles		
(D) convert measures within the same measurement system (customary and metric) based on relationships between units.							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
(9) Probability and statistics. The student uses experimental and theoretical probability to make predictions. The student is expected to:							
(A) construct sample spaces using lists and tree diagrams; and					Module: Fundamentals of Probability Unit: Simple Probability Session: Defining & Expressing Probability		
					Module: Fundamentals of Probability Unit: Simple Probability Session: Calculating Probabilities on a Color Wheel		
					Module: Fundamentals of Probability Unit: Probability of Combined Events Session: Calculating the Probability of Independent Events		
					Module: Fundamentals of Probability Unit: Probability of Combined Events Session: Determining the Sample Space of an Experiment		
(B) find the probabilities of a simple event and its complement and describe the relationship between the two.					Module: Fundamentals of Probability Unit: Simple Probability Session: Defining & Expressing Probability		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Fundamentals of Probability Unit: Simple Probability Session: Calculating Probabilities on a Color Wheel		
					Module: Fundamentals of Probability Unit: Simple Probability Session: Determining Probabilities of Complementary Events		
(10) Probability and statistics. The student uses statistical representations to analyze data. The student is expected to:							
(A) select and use an appropriate representation for presenting and displaying different graphical representations of the same data including line plot, line graph, bar graph, and stem and leaf plot;			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data				
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Line Graphs		
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Bar Graphs		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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 mean (using concrete objects and pictorial models), median, mode, and range of a set of data;			Module: Data Analysis and Probability Unit: Modeling and Displaying Events Session: Displaying and Analyzing Data				
					Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Defining the Mean & Median		
					Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Defining the Mode		
					Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Calculating the Mean, Median, & Mode		
(C) sketch circle graphs to display data; and					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Interpreting Pie Charts		
(D) solve problems by collecting, organizing, displaying, and interpreting data.					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Line Graphs		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Bar Graphs		
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Interpreting Pie Charts		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Creating & Interpreting a Frequency Table		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Defining a Histogram		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Exploring Cumulative Frequency Graphs		
(11) Underlying processes and mathematical tools. The student applies Grade 6 mathematics to solve problems connected to everyday experiences, investigations in other disciplines, and activities in and outside of school. The student is expected to:							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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) identify and apply mathematics to everyday experiences, to activities in and outside of school, with other disciplines, and with other mathematical topics;							
(B) use a problem-solving model that incorporates understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness;							
(C) select or develop an appropriate problem-solving strategy from a variety of different types, including drawing a picture, looking for a pattern, systematic guessing and checking, acting it out, making a table, working a simpler problem, or working backwards to solve a problem; and							
(D) select tools such as real objects, manipulatives, paper/pencil, and technology or techniques such as mental math, estimation, and number sense to solve problems.							
(12) Underlying processes and mathematical tools. The student communicates about Grade 6 mathematics through informal and mathematical language, representations, and models. The student is expected to:							
(A) communicate mathematical ideas using language, efficient tools, appropriate units, and graphical, numerical, physical, or algebraic mathematical models; and							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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) evaluate the effectiveness of different representations to communicate ideas.							
(13) Underlying processes and mathematical tools. The student uses logical reasoning to make conjectures and verify conclusions. The student is expected to:							
(A) make conjectures from patterns or sets of examples and nonexamples; and							
(B) validate his/her conclusions using mathematical properties and relationships.							
Grade 7							
(1) Number, operation, and quantitative reasoning. The student represents and uses numbers in a variety of equivalent forms. The student is expected to:							
(A) compare and order integers and positive rational numbers;			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Negative Whole Numbers				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents				
				Module: Fractions Unit: Essentials of Fractions Session: Recognizing a Fraction			
				Module: Fractions Unit: Essentials of Fractions Session: Exploring Proper and Improper Fractions			
				Module: Fractions Unit: Essentials of Fractions Session: Working with Mixed Numbers			
				Module: Fractions Unit: Equivalent Fractions Session: Writing and Comparing Equivalent 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
				Module: Decimals Unit: Essentials of Decimals Session: Rounding Decimals			
				Module: Decimals Unit: Essentials of Decimals Session: Exploring Repeating and Terminating Decimals			
				Module: Percents Unit: Essentials of Percents Session: Expressing Percents as Proper Fractions			
				Module: Integers and Order of Operations Unit: Adding and Subtracting Signed Numbers Session: Exploring the Number Line and Absolute Value			
(B) convert between fractions, decimals, whole numbers, and percents mentally, on paper, or with a calculator; and			Module: Decimals Unit: Introduction Session: Ordering and Rounding				
			Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Decimals Unit: Dividing Decimals Session: Dividing by Powers of 10			
				Module: Percents Unit: Essentials of Percents Session: Investigating the Meaning of Percent			
				Module: Percents Unit: Essentials of Percents Session: Expressing Percents as Proper Fractions			
				Module: Percents Unit: Essentials of Percents Session: Expressing Percents greater than 100% as Improper Fractions			
				Module: Percents Unit: Finding Percents of Quantities Session: Finding Percents of a Whole			
				Module: Percents Unit: Finding Percents of Quantities Session: Expressing Ratios as Percents			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Ratio & Proportion Unit: Ratio Session: Expressing Ratios as Equivalent Fractions & Decimals		
(C) represent squares and square roots using geometric models.					Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Exploring the Pythagorean Theorem		
					Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Investigating Squares & Square Roots		
					Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Defining Irrational Numbers		
(2) Number, operation, and quantitative reasoning. The student adds, subtracts, multiplies, or divides to solve problems and justify solutions. The student is expected to:							
(A) represent multiplication and division situations involving fractions and decimals with models, including concrete objects, pictures, words, and numbers;			Module: Fractions Unit: Multiplication and Division Session: Finding Products				

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
			Module: Fractions Unit: Multiplication and Division Session: Quotients and Remainders				
			Module: Decimals Unit: Multiplication and Division Session: Multiplying Decimals				
			Module: Decimals Unit: Multiplication and Division Session: Dividing Decimals by Whole Numbers				
(B) use addition, subtraction, multiplication, and division to solve problems involving fractions and decimals;				Module: Fractions Unit: Multiplying Fractions Session: Finding Products of Fractions, Whole Numbers, and Mixed Numbers			
				Module: Fractions Unit: Multiplying Fractions Session: Representing Multiplication			
				Module: Fractions Unit: Dividing Fractions Session: Estimating Quotients of Fractions			

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

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Decimals Unit: Multiplying Decimals Session: Multiplying Decimals by Powers of 10			
				Module: Decimals Unit: Multiplying Decimals Session: Calculating Products			
				Module: Decimals Unit: Dividing Decimals Session: Dividing Decimals by Whole Numbers			
				Module: Decimals Unit: Dividing Decimals Session: Estimating and Finding Quotients			
				Module: Decimals Unit: Dividing Decimals Session: Dividing by Powers of 10			
(C) use models, such as concrete objects, pictorial models, and number lines, to add, subtract, multiply, and divide integers and connect the actions to algorithms;				Module: Integers and 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
				Module: Integers and Order of Operations Unit: Adding and Subtracting Signed Numbers Session: Adding with Absolute Value			
				Module: Integers and Order of Operations Unit: Adding and Subtracting Signed Numbers Session: Subtracting with Absolute Value			
				Module: Integers and Order of Operations Unit: Multiplying and Dividing Signed Numbers Session: Finding Products of Signed Numbers			
				Module: Integers and Order of Operations Unit: Multiplying and Dividing Signed Numbers Session: Representing the Multiplication of Signed Numbers			
				Module: Integers and Order of Operations Unit: Multiplying and Dividing Signed Numbers Session: Finding Quotients Using Reciprocals			
(D) use division to find unit rates and ratios in proportional relationships such as speed, density, price, recipes, and student-teacher ratio;					Module: Ratio & Proportion Unit: Ratio Session: Defining Ratio		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Ratio & Proportion Unit: Ratio Session: Expressing Ratios as Equivalent Fractions & Decimals		
					Module: Ratio & Proportion Unit: Ratio Session: Forming Ratios between Unlike Quantities		
					Module: Ratio & Proportion Unit: Proportion Session: Defining a Proportion		
					Module: Ratio & Proportion Unit: Proportion Session: Solving for a Variable in a Proportion		
					Module: Ratio & Proportion Unit: Proportion Session: Applying the Means/Extremes Property		
					Module: Ratio & Proportion Unit: Direct & Inverse Variation Session: Exploring & Solving Direct Variation Problems		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Ratio & Proportion Unit: Direct & Inverse Variation Session: Exploring Inverse Variation		
					Module: Ratio & Proportion Unit: Direct & Inverse Variation Session: Solving Inverse Variation Problems		
(E) simplify numerical expressions involving order of operations and exponents;				Module: Integers and Order of Operations Unit: Order of Operations Session: Simplifying Expressions			
				Module: Integers and Order of Operations Unit: Order of Operations Session: Introducing the Distributive Property			
					Module: Essentials of Algebra Unit: Simple Equations Session: Using Variables to Express Relationships		
(F) select and use appropriate operations to solve problems and justify the selections; and							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
(G) determine the reasonableness of a solution to a problem.							
(3) Patterns, relationships, and algebraic thinking. The student solves problems involving direct proportional relationships. The student is expected to:							
(A) estimate and find solutions to application problems involving percent; and				Module: Percents Unit: Increasing and Decreasing Percents Session: Calculating Percent Increases			
				Module: Percents Unit: Increasing and Decreasing Percents Session: Calculating Percent Decreases			
(B) estimate and find solutions to application problems involving proportional relationships such as similarity, scaling, unit costs, and related measurement units.					Module: Ratio & Proportion Unit: Proportion Session: Defining a Proportion		
					Module: Ratio & Proportion Unit: Proportion Session: Solving for a Variable in 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 & Proportion Unit: Proportion Session: Applying the Means/Extremes Property		
(4) Patterns, relationships, and algebraic thinking. The student represents a relationship in numerical, geometric, verbal, and symbolic form. The student is expected to:							
(A) generate formulas involving unit conversions, perimeter, area, circumference, volume, and scaling;				Module: Decimals Unit: Essentials of Decimals Session: Rounding Decimals			
				Module: Decimals Unit: Multiplying Decimals Session: Finding the Volume of a Prism			
					Module: Essentials of Algebra Unit: Algebra Fundamentals Session: Introducing Variables		
					Module: Essentials of Algebra Unit: Algebra Fundamentals Session: Replacing Variables in a Formula		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Essentials of Algebra Unit: Solving Literal Equations Session: Identifying the Variables in a Given Formula		
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume of a Right Triangular Prism		
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Surface Area of a Right Triangular Prism		
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume & Surface Area of a Right Cylinder		
(B) graph data to demonstrate relationships in familiar concepts such as conversions, perimeter, area, circumference, volume, and scaling; and					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		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Creating & Interpreting a Frequency Table		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Defining a Histogram		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Exploring Cumulative Frequency Graphs		
(C) use words and symbols to describe the relationship between the terms in an arithmetic sequence (with a constant rate of change) and their positions in the sequence.							
(5) Patterns, relationships, and algebraic thinking. The student uses equations to solve problems. The student is expected to:							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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 concrete and pictorial models to solve equations and use symbols to record the actions; and					Module: Essentials of Algebra Unit: Algebra Fundamentals Session: Introducing Variables		
					Module: Essentials of Algebra Unit: Algebra Fundamentals Session: Identifying Components of Algebraic Expressions		
					Module: Essentials of Algebra Unit: Algebra Fundamentals Session: Replacing Variables in a Formula		
					Module: Essentials of Algebra Unit: Simple Equations Session: Using Variables to Express Relationships		
					Module: Essentials of Algebra Unit: Simple Equations Session: Simplifying Algebraic Expressions		
					Module: Essentials of Algebra Unit: Simple Equations Session: Solving Simple Equations		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Writing Equations		
					Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Simplifying Both Sides of an Equation		
					Module: Essentials of Algebra Unit: Variable on Both Sides of the Equation Session: Checking the Solution to an Equation		
(B) formulate problem situations when given a simple equation and formulate an equation when given a problem situation.				Module: Fractions Unit: Dividing Fractions Session: Using Multiplicative Inverses			
					Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Representing the Dimensions & Area of a Rectangle		
					Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Combining Like Terms		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
(6) Geometry and spatial reasoning. The student compares and classifies two- and three-dimensional figures using geometric vocabulary and properties. The student is expected to:							
(A) use angle measurements to classify pairs of angles as complementary or supplementary;					Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Defining Complementary & Supplementary Angles		
(B) use properties to classify triangles and quadrilaterals;			Module: Geometry Unit: Measurement Session: Rectangles and Squares				
			Module: Geometry Unit: Measurement Session: Triangles				
			Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids				
					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
					Module: Fundamentals of Geometry Unit: Triangles Session: Exploring the Area of a Triangle		
					Module: Fundamentals of Geometry Unit: Triangles Session: Classifying Triangles by Angles		
(C) use properties to classify three-dimensional figures, including pyramids, cones, prisms, and cylinders; and					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume of a Right Triangular Prism		
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Surface Area of a Right Triangular Prism		
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume & Surface Area of a Right Cylinder		
(D) use critical attributes to define similarity.					Module: Ratio & Proportion Unit: Similar Polygons Session: Defining Similarity		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Ratio & Proportion Unit: Similar Polygons Session: Setting up & Solving Proportions in Similar Polygons		
(7) Geometry and spatial reasoning. The student uses coordinate geometry to describe location on a plane. The student is expected to:							
(A) locate and name points on a coordinate plane using ordered pairs of integers; and			Module: Geometry Unit: Coordinate Geometry and Algebra Session: The Coordinate Plane				
			Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations				
						Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Graphing Ordered Pairs	
(B) graph reflections across the horizontal or vertical axis and graph translations on a coordinate plane.			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
(8) Geometry and spatial reasoning. The student uses geometry to model and describe the physical world. The student is expected to:							
(A) sketch three-dimensional figures when given the top, side, and front views;							
(B) make a net (two-dimensional model) of the surface area of a three-dimensional figure; and							
(C) use geometric concepts and properties to solve problems in fields such as art and architecture.							
(9) Measurement. The student solves application problems involving estimation and measurement. The student is expected to:							
(A) estimate measurements and solve application problems involving length (including perimeter and circumference) and area of polygons and other shapes;					Module: Fundamentals of Geometry Unit: Triangles Session: Exploring the Area of a Triangle		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Surface Area of a Right Triangular Prism		
(B) connect models for volume of prisms (triangular and rectangular) and cylinders to formulas of prisms (triangular and rectangular) and cylinders; and					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume of a Right Triangular Prism		
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Surface Area of a Right Triangular Prism		
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume & Surface Area of a Right Cylinder		
(C) estimate measurements and solve application problems involving volume of prisms (rectangular and triangular) and cylinders.					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume of a Right Triangular Prism		
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Surface Area of a Right Triangular Prism		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume & Surface Area of a Right Cylinder		
(10) Probability and statistics. The student recognizes that a physical or mathematical model can be used to describe the experimental and theoretical probability of real-life events. The student is expected to:							
(A) construct sample spaces for simple or composite experiments; and					Module: Fundamentals of Probability Unit: Probability of Combined Events Session: Calculating the Probability of Independent Events		
					Module: Fundamentals of Probability Unit: Probability of Combined Events Session: Determining the Sample Space of an Experiment		
					Module: Fundamentals of Probability Unit: Probability of Combined Events Session: Calculating the Probability of Mutually Exclusive Events		
(B) find the probability of independent events.					Module: Fundamentals of Probability Unit: Probability of Combined Events Session: Calculating the Probability of Independent Events		
					Module: Fundamentals of Probability Unit: Probability of Combined Events Session: Determining the Sample Space of an Experiment		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
(11) Probability and statistics. The student understands that the way a set of data is displayed influences its interpretation. The student is expected to:							
(A) select and use an appropriate representation for presenting and displaying relationships among collected data, including line plot, line graph, bar graph, stem and leaf plot, circle graph, and Venn diagrams, and justify the selection; and					Module: Ratio & Proportion Unit: Ratio Session: Forming Ratios between Unlike Quantities		
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Line Graphs		
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Bar Graphs		
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Interpreting Pie Charts		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Creating & Interpreting a Frequency Table		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Defining a Histogram		
(B) make inferences and convincing arguments based on an analysis of given or collected data.					Module: Ratio & Proportion Unit: Ratio Session: Forming Ratios between Unlike Quantities		
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Line Graphs		
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Bar Graphs		
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Interpreting Pie Charts		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Creating & Interpreting a Frequency Table		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Defining a Histogram		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
(12) Probability and statistics. The student uses measures of central tendency and range to describe a set of data. The student is expected to:							
(A) describe a set of data using mean, median, mode, and range; and					Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Defining the Mean & Median		
					Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Defining the Mode		
					Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Calculating the Mean, Median, & Mode		
(B) choose among mean, median, mode, or range to describe a set of data and justify the choice for a particular situation.					Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Defining the Mean & Median		
					Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Defining the Mode		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Calculating the Mean, Median, & Mode		
(13) Underlying processes and mathematical tools. The student applies Grade 7 mathematics to solve problems connected to everyday experiences, investigations in other disciplines, and activities in and outside of school. The student is expected to:							
(A) identify and apply mathematics to everyday experiences, to activities in and outside of school, with other disciplines, and with other mathematical topics;							
(B) use a problem-solving model that incorporates understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness;							
(C) select or develop an appropriate problem-solving strategy from a variety of different types, including drawing a picture, looking for a pattern, systematic guessing and checking, acting it out, making a table, working a simpler problem, or working backwards to solve a problem; and							
(D) select tools such as real objects, manipulatives, paper/pencil, and technology or techniques such as mental math, estimation, and number sense 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
(14) Underlying processes and mathematical tools. The student communicates about Grade 7 mathematics through informal and mathematical language, representations, and models. The student is expected to:							
(A) communicate mathematical ideas using language, efficient tools, appropriate units, and graphical, numerical, physical, or algebraic mathematical models; and							
(B) evaluate the effectiveness of different representations to communicate ideas.							
(15) Underlying processes and mathematical tools. The student uses logical reasoning to make conjectures and verify conclusions. The student is expected to:							
(A) make conjectures from patterns or sets of examples and nonexamples; and							
(B) validate his/her conclusions using mathematical properties and 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
Grade 8							
(1) Number, operation, and quantitative reasoning. The student understands that different forms of numbers are appropriate for different situations. The student is expected to:							
(A) compare and order rational numbers in various forms including integers, percents, and positive and negative fractions and decimals;			Module: Numbers and Number Sense Unit: Large and Small Numbers Session: Negative Whole Numbers				
			Module: Decimals Unit: Introduction Session: Ratios, Decimals, and Percents				
				Module: Fractions Unit: Equivalent Fractions Session: Expressing Fractions in Lowest Terms			
				Module: Fractions Unit: Equivalent Fractions Session: Writing and Comparing Equivalent Fractions			

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
				Module: Fractions Unit: Multiplying Fractions Session: Finding Products of Fractions, Whole Numbers, and Mixed Numbers			
				Module: Decimals Unit: Essentials of Decimals Session: Rounding Decimals			
				Module: Decimals Unit: Essentials of Decimals Session: Exploring Repeating and Terminating Decimals			
				Module: Percents Unit: Essentials of Percents Session: Investigating the Meaning of Percent			
				Module: Percents Unit: Essentials of Percents Session: Expressing Percents as Proper Fractions			
				Module: Integers and 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) select and use appropriate forms of rational numbers to solve real-life problems including those involving proportional relationships;					Module: Ratio & Proportion Unit: Proportion Session: Defining a Proportion		
					Module: Ratio & Proportion Unit: Proportion Session: Solving for a Variable in a Proportion		
					Module: Ratio & Proportion Unit: Proportion Session: Applying the Means/Extremes Property		
					Module: Ratio & Proportion Unit: Direct & Inverse Variation Session: Exploring & Solving Direct Variation Problems		
					Module: Ratio & Proportion Unit: Direct & Inverse Variation Session: Exploring Inverse Variation		
					Module: Ratio & Proportion Unit: Direct & Inverse Variation Session: Solving Inverse Variation Problems		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Ratio & Proportion Unit: Similar Polygons Session: Defining Similarity		
					Module: Ratio & Proportion Unit: Similar Polygons Session: Identifying Equivalent Ratios		
					Module: Ratio & Proportion Unit: Similar Polygons Session: Setting up & Solving Proportions in Similar Polygons		
(C) approximate (mentally and with calculators) the value of irrational numbers as they arise from problem situations (such as PI, square root of 2); and					Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Exploring the Pythagorean Theorem		
					Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Investigating Squares & Square Roots		
					Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Defining Irrational Numbers		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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) express numbers in scientific notation, including negative exponents, in appropriate problem situations.					Module: Radicals & Exponents Unit: Introduction to Scientific Notation Session: Writing Numbers Using Scientific Notation		
					Module: Radicals & Exponents Unit: Introduction to Scientific Notation Session: Comparing Numbers in Scientific Notation		
					Module: Radicals & Exponents Unit: Introduction to Scientific Notation Session: Writing Numbers between 0 & 1 in Scientific Notation		
(2) Number, operation, and quantitative reasoning. The student selects and uses appropriate operations to solve problems and justify solutions. The student is expected to:							
(A) select appropriate operations to solve problems involving rational numbers and justify the selections;				Module: Integers and Order of Operations Unit: Order of Operations Session: Simplifying Expressions			
				Module: Integers and Order of Operations Unit: Order of Operations Session: Introducing the Distributive Property			

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

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
						Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Translating Words into Expressions	
						Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Applying Properties of Real Numbers	
(B) use appropriate operations to solve problems involving rational numbers in problem situations;				Module: Integers and Order of Operations Unit: Order of Operations Session: Simplifying Expressions			
				Module: Integers and Order of Operations Unit: Order of Operations Session: Introducing the Distributive Property			
					Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Representing the Dimensions & Area of a Rectangle		
					Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Combining Like Terms		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Evaluating Expressions Using Substitution		
					Module: Essentials of Algebra Unit: Simple Equations Session: Using Variables to Express Relationships		
					Module: Essentials of Algebra Unit: Simple Equations Session: Simplifying Algebraic Expressions		
					Module: Essentials of Algebra Unit: Simple Equations Session: Solving Simple Equations		
						Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Translating Words into Expressions	
						Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Applying Properties of 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
(C) evaluate a solution for reasonableness; and							
(D) use multiplication by a constant factor (unit rate) to represent proportional relationships.					Module: Ratio & Proportion Unit: Direct & Inverse Variation Session: Exploring & Solving Direct Variation Problems		
					Module: Ratio & Proportion Unit: Direct & Inverse Variation Session: Exploring Inverse Variation		
					Module: Ratio & Proportion Unit: Direct & Inverse Variation Session: Solving Inverse Variation Problems		
(3) Patterns, relationships, and algebraic thinking. The student identifies proportional or nonproportional linear relationships in problem situations and solves problems. The student is expected to:							
(A) compare and contrast proportional and non-proportional linear relationships; and					Module: Ratio & Proportion Unit: Proportion Session: Defining a Proportion		
					Module: Ratio & Proportion Unit: Proportion Session: Solving for a Variable in 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 & Proportion Unit: Proportion Session: Applying the Means/Extremes Property		
					Module: Ratio & Proportion Unit: Direct & Inverse Variation Session: Exploring & Solving Direct Variation Problems		
					Module: Ratio & Proportion Unit: Direct & Inverse Variation Session: Exploring Inverse Variation		
					Module: Ratio & Proportion Unit: Direct & Inverse Variation Session: Solving Inverse Variation Problems		
(B) estimate and find solutions to application problems involving percents and other proportional relationships such as similarity and rates.					Module: Ratio & Proportion Unit: Ratio Session: Defining Ratio		
					Module: Ratio & Proportion Unit: Ratio Session: Expressing Ratios as Equivalent Fractions & Decimals		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Ratio & Proportion Unit: Ratio Session: Forming Ratios between Unlike Quantities		
					Module: Ratio & Proportion Unit: Direct & Inverse Variation Session: Exploring & Solving Direct Variation Problems		
					Module: Ratio & Proportion Unit: Direct & Inverse Variation Session: Exploring Inverse Variation		
					Module: Ratio & Proportion Unit: Direct & Inverse Variation Session: Solving Inverse Variation Problems		
(4) Patterns, relationships, and algebraic thinking. The student makes connections among various representations of a numerical relationship. The student is expected to generate a different representation of data given another representation of data (such as a table, graph, equation, or verbal description).					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Bar Graphs		
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Interpreting Pie Charts		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Creating & Interpreting a Frequency Table		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Defining a Histogram		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Exploring Cumulative Frequency Graphs		
(5) Patterns, relationships, and algebraic thinking. The student uses graphs, tables, and algebraic representations to make predictions and solve problems. The student is expected to:							
(A) predict, find, and justify solutions to application problems using appropriate tables, graphs, and algebraic equations; and					Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Representing the Dimensions & Area of a Rectangle		
					Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Combining Like Terms		
					Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Evaluating Expressions Using Substitution		

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

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Creating & Interpreting a Frequency Table		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Defining a Histogram		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Exploring Cumulative Frequency Graphs		
(B) find and evaluate an algebraic expression to determine any term in an arithmetic sequence (with a constant rate of change).							
(6) Geometry and spatial reasoning. The student uses transformational geometry to develop spatial sense. The student is expected to:							
(A) generate similar shapes using dilations including enlargements and reductions; and					Module: Ratio & Proportion Unit: Similar Polygons Session: Defining Similarity		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Ratio & Proportion Unit: Similar Polygons Session: Identifying Equivalent Ratios		
					Module: Ratio & Proportion Unit: Similar Polygons Session: Setting up & Solving Proportions in Similar Polygons		
(B) graph dilations, reflections, and translations on a coordinate plane.			Module: Geometry Unit: Coordinate Geometry and Algebra Session: Symmetry and Transformations				
(7) Geometry and spatial reasoning. The student uses geometry to model and describe the physical world. The student is expected to:							
(A) draw three-dimensional figures from different perspectives;							
(B) use geometric concepts and properties to solve problems in fields such as art and architecture;					Module: Fundamentals of Geometry Unit: Geometry Fundamentals Session: Naming and Measuring Angles		

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

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Surface Area of a Right Triangular Prism		
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume & Surface Area of a Right Cylinder		
(C) use pictures or models to demonstrate the Pythagorean Theorem; and					Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Exploring the Pythagorean Theorem		
					Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Investigating Squares & Square Roots		
					Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Defining Irrational Numbers		
					Module: Ratio & Proportion Unit: Similar Polygons Session: Setting up & Solving Proportions in Similar Polygons		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
(D) locate and name points on a coordinate plane using ordered pairs of rational numbers.			Module: Geometry Unit: Coordinate Geometry and Algebra Session: The Coordinate Plane				
						Module: Linear Functions and Equations Unit: The Rectangular Coordinate Plane Session: Graphing Ordered Pairs	
(8) Measurement. The student uses procedures to determine measures of three-dimensional figures. The student is expected to:							
(A) find lateral and total surface area of prisms, pyramids, and cylinders using concrete models and nets (two-dimensional models);					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume of a Right Triangular Prism		
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Surface Area of a Right Triangular Prism		
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume & Surface Area of a Right Cylinder		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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) connect models of prisms, cylinders, pyramids, spheres, and cones to formulas for volume of these objects; and					Module: Essentials of Algebra Unit: Algebra Fundamentals Session: Introducing Variables		
					Module: Essentials of Algebra Unit: Algebra Fundamentals Session: Identifying Components of Algebraic Expressions		
					Module: Essentials of Algebra Unit: Solving Literal Equations Session: Identifying the Variables in a Given Formula		
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume of a Right Triangular Prism		
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume & Surface Area of a Right Cylinder		
(C) estimate measurements and use formulas to solve application problems involving lateral and total surface area and volume.					Module: Essentials of Algebra Unit: Algebra Fundamentals Session: Replacing Variables in a Formula		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume of a Right Triangular Prism		
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Surface Area of a Right Triangular Prism		
					Module: Fundamentals of Geometry Unit: Volume and Surface Area Session: Calculating the Volume & Surface Area of a Right Cylinder		
(9) Measurement. The student uses indirect measurement to solve problems. The student is expected to:							
(A) use the Pythagorean Theorem to solve real-life problems; and					Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Exploring the Pythagorean Theorem		
					Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Defining Irrational Numbers		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Ratio & Proportion Unit: Similar Polygons Session: Setting up & Solving Proportions in Similar Polygons		
(B) use proportional relationships in similar two-dimensional figures or similar three-dimensional figures to find missing measurements.					Module: Ratio & Proportion Unit: Similar Polygons Session: Setting up & Solving Proportions in Similar Polygons		
(10) Measurement. The student describes how changes in dimensions affect linear, area, and volume measures. The student is expected to:							
(A) describe the resulting effects on perimeter and area when dimensions of a shape are changed proportionally; and			Module: Geometry Unit: Measurement Session: Rectangles and Squares				
			Module: Geometry Unit: Measurement Session: Parallelograms and Trapezoids				
(B) describe the resulting effect on volume when dimensions of a solid are changed proportionally.							

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
(11) Probability and statistics. The student applies concepts of theoretical and experimental probability to make predictions. The student is expected to:							
(A) find the probabilities of dependent and independent events;					Module: Fundamentals of Probability Unit: Probability of Combined Events Session: Calculating the Probability of Independent Events		
					Module: Fundamentals of Probability Unit: Probability of Combined Events Session: Determining the Sample Space of an Experiment		
					Module: Fundamentals of Probability Unit: Probability of Combined Events Session: Calculating the Probability of Mutually Exclusive Events		
(B) use theoretical probabilities and experimental results to make predictions and decisions; and					Module: Fundamentals of Probability Unit: Simple Probability Session: Defining & Expressing Probability		
					Module: Fundamentals of Probability Unit: Simple Probability Session: Calculating Probabilities on a Color Wheel		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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: Simple Probability Session: Determining Probabilities of Complementary Events		
					Module: Fundamentals of Probability Unit: Probability of Combined Events Session: Calculating the Probability of Independent Events		
					Module: Fundamentals of Probability Unit: Probability of Combined Events Session: Determining the Sample Space of an Experiment		
					Module: Fundamentals of Probability Unit: Probability of Combined Events Session: Calculating the Probability of Mutually Exclusive Events		
(C) select and use different models to simulate an event.					Module: Fundamentals of Probability Unit: Probability of Combined Events Session: Calculating the Probability of Independent Events		
					Module: Fundamentals of Probability Unit: Probability of Combined Events Session: Determining the Sample Space of an Experiment		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
(12) Probability and statistics. The student uses statistical procedures to describe data. The student is expected to:							
(A) select the appropriate measure of central tendency or range to describe a set of data and justify the choice for a particular situation;					Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Defining the Mean & Median		
					Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Defining the Mode		
					Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Calculating the Mean, Median, & Mode		
(B) draw conclusions and make predictions by analyzing trends in scatterplots; and							
(C) select and use an appropriate representation for presenting and displaying relationships among collected data, including line plots, line graphs, stem and leaf plots, circle graphs, bar graphs, box and whisker plots, histograms, and Venn diagrams, with and without the use of technology.					Module: Ratio & Proportion Unit: Ratio Session: Forming Ratios between Unlike Quantities		

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					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Line Graphs		
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Exploring Bar Graphs		
					Module: Fundamentals of Statistics Unit: Interpreting and Constructing Graphs Session: Interpreting Pie Charts		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Creating & Interpreting a Frequency Table		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Defining a Histogram		
					Module: Fundamentals of Statistics Unit: Frequency Distribution and Histograms Session: Exploring Cumulative Frequency Graphs		

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(13) Probability and statistics. The student evaluates predictions and conclusions based on statistical data. The student is expected to:							
(A) evaluate methods of sampling to determine validity of an inference made from a set of data; and							
(B) recognize misuses of graphical or numerical information and evaluate predictions and conclusions based on data analysis.							
(14) Underlying processes and mathematical tools. The student applies Grade 8 mathematics to solve problems connected to everyday experiences, investigations in other disciplines, and activities in and outside of school. The student is expected to:							
(A) identify and apply mathematics to everyday experiences, to activities in and outside of school, with other disciplines, and with other mathematical topics;							
(B) use a problem-solving model that incorporates understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness;							

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(C) select or develop an appropriate problem-solving strategy from a variety of different types, including drawing a picture, looking for a pattern, systematic guessing and checking, acting it out, making a table, working a simpler problem, or working backwards to solve a problem; and							
(D) select tools such as real objects, manipulatives, paper/pencil, and technology or techniques such as mental math, estimation, and number sense to solve problems.					Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Exploring the Pythagorean Theorem		
					Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Investigating Squares & Square Roots		
					Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Defining Irrational Numbers		
					Module: Radicals & Exponents Unit: Introduction to Scientific Notation Session: Writing Numbers Using Scientific Notation		
					Module: Radicals & 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
					Module: Radicals & Exponents Unit: Introduction to Scientific Notation Session: Writing Numbers between 0 & 1 in Scientific Notation		
(15) Underlying processes and mathematical tools. The student communicates about Grade 8 mathematics through informal and mathematical language, representations, and models. The student is expected to:							
(A) communicate mathematical ideas using language, efficient tools, appropriate units, and graphical, numerical, physical, or algebraic mathematical models; and					Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Exploring the Pythagorean Theorem		
					Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Investigating Squares & Square Roots		
					Module: Radicals & Exponents Unit: Introduction to Radicals & Pythagorean Theorem Session: Defining Irrational Numbers		
					Module: Radicals & Exponents Unit: Introduction to Scientific Notation Session: Writing Numbers Using Scientific Notation		
					Module: Radicals & 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
					Module: Radicals & Exponents Unit: Introduction to Scientific Notation Session: Writing Numbers between 0 & 1 in Scientific Notation		
(B) evaluate the effectiveness of different representations to communicate ideas.				Module: Integers and Order of Operations Unit: Order of Operations Session: Simplifying Expressions			
				Module: Integers and Order of Operations Unit: Order of Operations Session: Introducing the Distributive Property			
					Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Representing the Dimensions & Area of a Rectangle		
					Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Combining Like Terms		
					Module: Essentials of Algebra Unit: Evaluating an Algebraic Expression Session: Evaluating Expressions Using Substitution		
					Module: Essentials of Algebra Unit: Simple Equations Session: Using Variables to Express Relationships		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	Mastering Skills & Concepts: Course IV: Basic Mathematics	Mastering Skills & Concepts: Course V: Pre-Algebra	Mastering Algebra I: Course 1	Mastering Algebra I: Course 2
					Module: Essentials of Algebra Unit: Simple Equations Session: Simplifying Algebraic Expressions		
					Module: Essentials of Algebra Unit: Simple Equations Session: Solving Simple Equations		
						Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Translating Words into Expressions	
						Module: The Language of Algebra Unit: Variables, Expressions, and Equations Session: Applying Properties of Real Numbers	
(16) Underlying processes and mathematical tools. The student uses logical reasoning to make conjectures and verify conclusions. The student is expected to:							
(A) make conjectures from patterns or sets of examples and nonexamples; and							
(B) validate his/her conclusions using mathematical properties and relationships.					Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Defining the Mean & Median		
					Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Defining the Mode		

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					Module: Fundamentals of Statistics Unit: The Mean, Median, & Mode Session: Calculating the Mean, Median, & Mode		
					Module: Fundamentals of Probability Unit: Simple Probability Session: Defining & Expressing Probability		
					Module: Fundamentals of Probability Unit: Simple Probability Session: Calculating Probabilities on a Color Wheel		
					Module: Fundamentals of Probability Unit: Simple Probability Session: Determining Probabilities of Complementary Events		
					Module: Fundamentals of Probability Unit: Probability of Combined Events Session: Calculating the Probability of Independent Events		
					Module: Fundamentals of Probability Unit: Probability of Combined Events Session: Determining the Sample Space of an Experiment		

Standards	Mastering Skills & Concepts: Course I	Mastering Skills & Concepts: Course II	Mastering Skills & Concepts: Course III: Intermediate Mathematics	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 Mutually Exclusive Events		
Grades 9-12							
Algebra: Foundations for Functions							
(A.1) The student understands that a function represents a dependence of one quantity on another and can be described in a variety of ways. The student is expected to:							
(A) describe independent and dependent quantities in functional relationships;							
(B) gather and record data and use data sets to determine function relationships between quantities;							

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(C) describe functional relationships for given problem situations and write equations or inequalities to answer questions arising from the situations;							
(D) represent relationships among quantities using concrete models, tables, graphs, diagrams, verbal descriptions, equations, and inequalities; and							
(E) interpret and make decisions, predictions, and critical judgments from functional relationships.							
(A.2) The student uses the properties and attributes of functions. The student is expected to:							
(A) identify and sketch the general forms of linear ($y = x$) and quadratic ($y = x^2$) parent functions;							
(B) identify mathematical domains and ranges and determine reasonable domain and range values for given situations , both continuous and discrete;							

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(C) interpret situations in terms of given graphs or creates situations that fit given graphs; and							
(D) collect and organize data, make and interpret scatterplots (including recognizing positive, negative, or no correlation for data approximating linear situations) , and model, predict, and make decisions and critical judgments in problem situations .							
(A.3) The student understands how algebra can be used to express generalizations and recognizes and uses the power of symbols to represent situations. The student is expected to:							
(A) use symbols to represent unknowns and variables; and							
(B) look for patterns and represent generalizations algebraically.							
(A.4) The student understands the importance of the skills required to manipulate symbols in order to solve problems and uses the necessary algebraic skills required to simplify algebraic expressions and solve equations and inequalities in problem situations. The student is expected to:							

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(A) find specific function values, simplify polynomial expressions, transform and solve equations, and factor as necessary in problem situations;							
(B) use the commutative, associative, and distributive properties to simplify algebraic expressions; and							
(C) connect equation notation with function notation, such as y = x + 1 and f(x) = x + 1.							
Algebra: Linear Functions							
(A.5) The student understands that linear functions can be represented in different ways and translates among their various representations. The student is expected to:							
(A) determine whether or not given situations can be represented by linear functions;							
(B) determine the domain and range for linear functions in given situations; and							

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(C) use, translate, and make connections among algebraic, tabular, graphical, or verbal descriptions of linear functions.							
(A.6) The student understands the meaning of the slope and intercepts of the graphs of linear functions and zeros of linear functions and interprets and describes the effects of changes in parameters of linear functions in real-world and mathematical situations. The student is expected to:							
(A) develop the concept of slope as rate of change and determine slopes from graphs, tables, and algebraic representations;							
(B) interpret the meaning of slope and intercepts in situations using data, symbolic representations, or graphs;							
(C) investigate, describe, and predict the effects of changes in m and b on the graph of y = mx + b;							
(D) graph and write equations of lines given characteristics such as two points, a point and a slope, or a slope and y-intercept;							

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(E) determine the intercepts of the graphs of linear functions and zeros of linear functions from graphs, tables, and algebraic representations;							
(F) interpret and predict the effects of changing slope and y-intercept in applied situations; and							
(G) relate direct variation to linear functions and solve problems involving proportional change.							
(A.7) The student formulates equations and inequalities based on linear functions, uses a variety of methods to solve them, and analyzes the solutions in terms of the situation. The student is expected to:							
(A) analyze situations involving linear functions and formulate linear equations or inequalities to solve problems;							
(B) investigate methods for solving linear equations and inequalities using concrete models, graphs, and the properties of equality, select a method, and solve the equations and inequalities; and							
(C) interpret and determine the reasonableness of solutions to linear equations and inequalities.							

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(A.8) The student formulates systems of linear equations from problem situations, uses a variety of methods to solve them, and analyzes the solutions in terms of the situation. The student is expected to:							
(A) analyze situations and formulate systems of linear equations in two unknowns to solve problems;							
(B) solve systems of linear equations using concrete models, graphs, tables, and algebraic methods; and							
(C) interpret and determine the reasonableness of solutions to systems of linear equations.							
Algebra: Quadratic and Other Nonlinear Functions							
(A.9) The student understands that the graphs of quadratic functions are affected by the parameters of the function and can interpret and describe the effects of changes in the parameters of quadratic functions. The student is expected to:							

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(A) determine the domain and range for quadratic functions in given situations;							
(B) investigate, describe, and predict the effects of changes in a on the graph of $y = ax^2 + c$;							
(C) investigate, describe, and predict the effects of changes in c on the graph of $y = ax^2 + c$; and							
(D) analyze graphs of quadratic functions and draw conclusions.							
(A.10) The student understands there is more than one way to solve a quadratic equation and solves them using appropriate methods. The student is expected to:							
(A) solve quadratic equations using concrete models, tables, graphs, and algebraic methods; and							

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(B) make connections among the solutions (roots) of quadratic equations, the zeros of their related functions, and the horizontal intercepts (x-intercepts) of the graph of the function.							
(A.11) The student understands there are situations modeled by functions that are neither linear nor quadratic and models the situations. The student is expected to:							
(A) use patterns to generate the laws of exponents and apply them in problemsolving situations;							
(B) analyze data and represent situations involving inverse variation using concrete models, tables, graphs, or algebraic methods; and							
(C) analyze data and represent situations involving exponential growth and decay using concrete models, tables, graphs, or algebraic methods.							