

Leaps and Bounds Toward Math Understanding  
Elementary Cycle 3 Curriculum Correlation

Curriculum Expectations Elementary Cycle 3	INTERVENTION Resources and Expectations from Previous Cycle	
<i>Progression of Learning Essential Knowledge Expectations (Elementary 5 and Elementary 6)</i>	<i>Correlation Leaps and Bounds and knowledge expectations</i>	<i>Progression of Learning Essential Knowledge Expectations Elementary Cycle 2 (Elementary 3 and Elementary 4)</i>
<b>Arithmetic: Understanding and Writing Numbers</b>		
<b>A. Natural Numbers</b>		
Counts natural numbers up to <b>1 000 000</b> forward and backwards	Leaps and Bounds 7/8: Representing Whole Numbers <i>Pathway 3: Representing Six-Digit Numbers</i>	Counts natural numbers up to 100 000 forward and backwards
Skip counts (e.g. by twos) natural numbers up to <b>1 000 000</b> forward and backwards		Skip counts (e.g. by twos) natural numbers up to 100 000 forward and backwards
Counts a collection of up to <b>1 000 000</b> by grouping or regrouping		Counts a collection of up to 100 000 by grouping or regrouping
Counts a pre-grouped collection of up to <b>1 000 000</b>		Counts a pre-grouped collection of up to 100 000
Reads and writes any natural number up to 1 000 000		Reads and writes any natural number up to 100 000
Represents natural numbers in different ways or associates a number with a set of objects or drawings with emphasis on place value in non-apparent, non-accessible groupings, using materials for which groupings are symbolic (e.g. abacus, money) for groups of up to <b>1 000 000</b>		Represents natural numbers in different ways or associates a number with a set of objects or drawings; in particular can exchange apparent, non-accessible groupings, using structured materials (e.g. base ten blocks, number tables) for groups of up to 100 000
Composes and decomposes a natural number up to <b>1 000 000</b> in a variety of ways (e.g. $123 = 100 + 23$ $123 = 100 + 20 + 3$ $123 = 50 + 50 + 20 + 3$ $123 = 2 \times 50 + 30 - 7$ $123 = 2 \times 60 + 3$ )		Composes and decomposes a natural number up to 100 000 in a variety of ways (e.g. $123 = 100 + 23$ $123 = 100 + 20 + 3$ $123 = 50 + 50 + 20 + 3$ $123 = 2 \times 50 + 30 - 7$ $123 = 2 \times 60 + 3$ )
Identifies equivalent expressions for numbers up to <b>1 000 000</b> (e.g. $52 = 40 + 12$ , $25 + 27 = 40 + 12$ , $52 = 104 \div 2$ )		Identifies equivalent expressions for numbers up to 100 000 (e.g. $52 = 40 + 12$ , $25 + 27 = 40 + 12$ , $52 = 104 \div 2$ )
Compares natural numbers up to <b>1 000 000</b>	Leaps and Bounds 5/6: Comparing Whole Numbers <i>Pathway 1: Comparing Numbers to 100 000</i> <i>Pathway 2: Comparing Numbers to 10 000</i> <i>Pathway 3: Comparing Numbers to 1000</i>	Compares natural numbers up to 100 000
Arranges natural numbers up to <b>1 000 000</b> in increasing or decreasing order		Arranges natural numbers up to 100 000 in increasing or decreasing order
Describes number patterns, using his/her own words and appropriate mathematical vocabulary (e.g. even numbers, odd numbers, square numbers, triangular numbers, prime numbers, composite numbers) for	[Hatched Box]	Describes number patterns, using his/her own words and appropriate mathematical vocabulary (e.g. even numbers, odd numbers, square numbers, triangular numbers, prime numbers, composite numbers) for numbers up to

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numbers up to <b>1 000 000</b>		100 000
Locates natural numbers up to <b>1 000 000</b> using different visual aids (e.g. hundreds chart, number strip, number line)	Leaps and Bounds 5/6: Comparing Whole Numbers <i>Pathway 1: Comparing Numbers to 100 000</i> <i>Pathway 2: Comparing Numbers to 10 000</i> <i>Pathway 3: Comparing Numbers to 1000</i>	Locates natural numbers up to 100 000 using different visual aids (e.g. hundreds chart, number strip, number line)
Classifies natural numbers up to <b>1 000 000</b> in various ways, based on their properties (e.g. even numbers, composite numbers)		Identifies properties such as square, prime or composite numbers of natural numbers up to 100 000
Approximates a collection of up to <b>1 000 000</b> , using objects or drawings (e.g. estimate, round up/down to a given value)		Classifies natural numbers up to 100 000 in various ways, based on their properties (e.g. even numbers, composite numbers)
Represents the power of a natural number up to <b>1 000 000</b>		Approximates a collection of up to 100 000, using objects or drawings (e.g. estimate, round up/down to a given value)

<b>B. Fractions (using objects or drawings)</b>		
Represents a fraction in a variety of ways, based on a whole or a collection of objects	Leaps and Bounds 5/6: Representing Fractions <i>Pathway 1: Improper Fractions: Parts of Sets</i> <i>Pathway 2: Improper fractions: Parts of Wholes</i> <i>Pathway 3: Proper fractions: Parts of Sets</i> <i>Pathway 4: Proper fractions: Parts of Wholes</i>	Matches a fraction to part of a whole (congruent or equivalent parts) or part of a group of objects, and vice versa  Distinguishes a numerator from a denominator
Verifies whether two fractions are equivalent	Leaps and Bounds 5/6: Comparing Fractions <i>Pathway 2: Equivalent Fractions</i>  Leaps and Bounds 7/8: Comparing Fractions <i>Pathway 3: Equivalent Fractions</i>	Reads and writes a fraction  Compares a fraction to 0, 1/2 or 1
Matches a decimal or a percentage to a fraction		
Orders fractions with the same denominator	Leaps and Bounds 5/6: Comparing Fractions <i>Pathway 2: Equivalent Fractions</i>	
Orders fractions where one denominator is a multiple of the other(s)	<i>Pathway 3: Comparing Same Numerator</i>	

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Orders fractions with the same numerator	<i>Pathway 4: Comparing Same Denominator</i>  Leaps and Bounds 7/8: Comparing Fractions <i>Pathway 1: Fractions and Mixed Numbers</i> <i>Pathway 2: Proper Fractions</i> <i>Pathway 3: Equivalent Fractions</i>	
Locates fractions on a number line		

<b>C. Decimals</b>		
Represents decimals up to the thousandths place in a variety of ways (using objects or drawings)	Leaps and Bounds 5/6: Representing Decimals <i>Pathway 1: Representing Thousandths</i>	Represents decimals up to the hundredths place in a variety of ways (using objects or drawings)
Identifies equivalent representations (using objects or drawings) of expressions to the thousandths place	<i>Pathway 2: Representing Hundredths</i> <i>Pathway 3: Representing Tenths</i>	Identifies equivalent representations (using objects or drawings) of expressions to the hundredths place
Reads and writes numbers written in decimal notation up to the thousandths place	Leaps and Bounds 5/6: Comparing Decimals	Reads and writes numbers written in decimal notation up to the hundredths place
Composes and decomposes a decimal written in decimal notation up to the thousandths place	<i>Pathway 1: Comparing Mixed Decimals</i> <i>Pathway 2: Comparing Thousandths</i> <i>Pathway 3: Comparing Tenths and Hundredths</i>	Understands the role of the decimal point
Recognizes equivalent expressions up to the thousandths place (e.g. 12 tenths is equivalent to 1 unit and 2 tenths; 0.5 is equivalent to 0.50)	Leaps and Bounds 7/8: Representing and Comparing Decimals	Recognizes equivalent expressions up to the hundredths place (e.g. 12 tenths is equivalent to 1 unit and 2 tenths; 0.5 is equivalent to 0.50)
Locates decimals up to the thousandths place between two consecutive natural numbers on a number line	<i>Pathway 1: Comparing Decimals</i> <i>Pathway 2: Representing Decimal Thousandths</i> <i>Pathway 3: Representing Tenths</i>	Locates decimals up to the hundredths place between two consecutive natural numbers on a number line
Locates decimals up to the thousandths place between two decimals on a number line		
Compares two decimals up to the thousandths place		Compares two decimals up to the hundredths place
Approximates decimal numbers to the thousandths place (e.g. estimates, rounds to a given value, truncates decimal places)		Approximates decimal numbers to the hundredths place (e.g. estimates, rounds to a given value, truncates decimal places)
Arranges decimals up to the thousandths place in increasing or decreasing order		Arranges decimals up to the hundredths place in increasing or decreasing order
Matches fraction or a percentage to its decimal number up to the thousandths place		Matches fraction to its decimal number up to the hundredths place

<b>D. Integers</b>		
Represents integers in a variety of ways (using objects or drawings) (e.g. tokens in two different colours, number line, thermometer, football field, elevator, hot air balloon)	Leaps and Bounds 7/8: Integers <i>Pathway 3: Representing and Comparing Integers</i>	
Reads and writes integers		
Locates integers on a number line or a Cartesian plane		
Compares integers		
Arranges integers in increasing or decreasing order		

<b>Arithmetic: Meaning of operations involving numbers</b>		
<b>A. Natural Numbers</b>		
Determines the operation(s) to perform in a given situation for natural numbers up to <b>1 000 000</b>	Leaps and Bounds 5/6: Relating Situations to Operations <i>Pathway 1: Division Situations</i> <i>Pathway 2: Multiplication Situations</i> <i>Pathway 3: Subtraction Situations</i>  Leaps and Bounds 7/8: Relating Situations to Operations Pathway 1: Recognizing Division Situations Pathway 2: Recognizing Multiplication Situations Pathway 3: Recognizing Subtraction Situations	Determines the operation(s) to perform in a given situation for numbers up to 100 000
Uses objects, diagrams or equations to represent the different meanings of addition and subtraction, in particular for adding, taking away, uniting and comparing natural numbers up to <b>1 000 000</b>	Leaps and Bounds 5/6: Adding and Subtracting* <i>Pathway 1: Different Numbers of Digits</i> <i>Pathway 2: Same Number of Digits</i> <i>Pathway 3: Using Mental Math to Subtract</i> Pathway 4: Using Mental Math to Add  Leaps and Bounds 3/4: Adding Whole Numbers* <i>Pathway 1: Adding Three-Digit Numbers</i> <i>Pathway 2: Adding Two-Digit Numbers</i> <i>Pathway 3: Adding One-Digit Numbers</i>	Uses objects, diagrams or equations to represent the different meanings of addition and subtraction, in particular for adding, taking away, uniting and comparing natural numbers up to 100 000

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	<p>Leaps and Bounds 3/4: Subtracting Whole Numbers*  <i>Pathway 1:</i> Subtracting Three-Digit Numbers  <i>Pathway 2:</i> Subtracting Two-Digit Numbers  <i>Pathway 3:</i> Subtracting One-Digit Numbers</p>	
<p>Uses objects, diagrams or equations to represent the different meanings of addition and subtraction, in particular the composition of negative and positive transformations of natural numbers up to <b>1 000 000</b></p>		<p>Uses objects, diagrams or equations to represent the different meanings of addition and subtraction, in particular the composition of additions and subtractions of natural numbers up to 100 000</p>
<p>Uses objects, diagrams or equations to represent the different meanings of addition and subtraction, in particular the composition of mixed transformations of natural numbers up to <b>1 000 000</b></p>		
<p>Uses objects, diagrams or equations to represent the different meanings of multiplication and division, in particular rectangular arrays, repeated addition, Cartesian product, area, volume, repeated subtraction, sharing, number of times x goes into y, and comparisons (using objects, diagrams or equations) for natural numbers up to <b>1 000 000</b>.</p>	<p>Leaps and Bounds 7/8: Whole Number Operations  <i>Pathway 2:</i> Dividing Whole Numbers  <i>Pathway 3:</i> Multiplying Whole Numbers</p> <p>Leaps and Bounds 5/6: Multiplying Whole Numbers  <i>Pathway 1:</i> Multiplying Two-Digit Numbers  <i>Pathway 2:</i> Multiplying by One-Digit Numbers  <i>Pathway 3:</i> Multiplication Fact Strategies</p> <p>Leaps and Bounds 5/6: Dividing Whole Numbers  <i>Pathway 1:</i> Dividing Three-Digit Numbers  <i>Pathway 2:</i> Dividing Two-Digit Numbers  <i>Pathway 3:</i> Division Fact Strategies</p>	<p>Uses objects, diagrams or equations to represent the different meanings of multiplication and division, in particular rectangular arrays, repeated addition, Cartesian product, area, volume, repeated subtraction, sharing, number of times x goes into y, and comparisons (using objects, diagrams or equations) for natural numbers up to 100 000.</p>
<p>Establishes equality relations between numerical expressions (e.g. <math>3 + 2 = 6 - 1</math>) for natural numbers up to <b>1 000 000</b></p>	<p>Leaps and Bounds 5/6: Equality  <i>Pathway 2:</i> Solving Equations</p> <p>Leaps and Bounds 3/4: Equality  <i>Pathway 1:</i> Equality: Using Numbers to 100  <i>Pathway 2:</i> Equality: Using Numbers to 20</p>	<p>Establishes equality relations between numerical expressions (e.g. <math>3 + 2 = 6 - 1</math>) for natural numbers up to 100 000</p>

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Determines numerical equivalencies using relationships between operations (the four operations), the commutative property of addition and multiplication, the associative property and the distributive property of multiplication over addition and subtraction for natural numbers up to <b>1 000 000</b>		Determines numerical equivalencies using relationships between operations (the four operations), the commutative property of addition and multiplication and the associative property for natural numbers up to 100 000.
Translates a situation using a series of operations in accordance with the order of operations for natural numbers up to <b>1 000 000</b>	Leaps and Bounds 7/8: Whole Number Operations Pathway 1: Order of Operations	
<b>B. Decimals</b>		
Uses objects, diagrams or equations to represent the different meanings of addition and subtraction, in particular for adding, taking away, uniting and comparing of decimal numbers up to the <b>thousandths</b> place.	Leaps and Bounds 5/6: Decimal Computation <i>Pathway 1:</i> Multiply and Divide by 10 or 100 <i>Pathway 2:</i> Add and Subtract to Thousandths <i>Pathway 3:</i> Add and Subtract Thousandths <i>Pathway 4:</i> Add and Subtract to Hundredths <i>Pathway 5:</i> Add and Subtract to Tenths and Hundredths	Uses objects, diagrams or equations to represent the different meanings of addition and subtraction, in particular for adding, taking away, uniting and comparing of decimal numbers up to the hundredths place.
Uses objects, diagrams or equations to represent the different meanings of addition and subtraction, in particular the composition of negative and positive transformations of decimal numbers up to the <b>thousandths</b> place.		Uses objects, diagrams or equations to represent the different meanings of addition and subtraction, in particular the composition of additions and subtractions of decimal numbers up to the hundredths place.
Uses objects, diagrams or equations to represent the different meanings of addition and subtraction, in particular the composition of mixed transformations of decimal numbers up to the <b>thousandths</b> place.		
Uses objects, diagrams or equations to represent the different meanings of multiplication and division, in particular rectangular arrays, repeated addition, Cartesian product, area, volume, repeated subtraction, sharing, number of times x goes into y, and comparisons (using objects, diagrams or equations) for decimal numbers up to the <b>thousandths</b> place.	Leaps and Bounds 7/8: Decimal Operations <i>Pathway 1:</i> Dividing Whole Numbers by Decimals <i>Pathway 2:</i> Diving Decimals by Whole Numbers <i>Pathway 3:</i> Multiplying with Decimals <i>Pathway 4:</i> Adding and Subtracting with Decimals  Leaps and Bounds 7/8: Relating Situations to Operations <i>Pathway 1:</i> Recognizing Division Situations <i>Pathway 2:</i> Recognizing Multiplication Situations <i>Pathway 3:</i> Recognizing Subtraction Situations  Leaps and Bounds 5/6: Decimal Computation <i>Pathway 1:</i> Multiply and Divide by 10 or by 100	Uses objects, diagrams or equations to represent the different meanings of multiplication and division, in particular rectangular arrays, repeated addition, Cartesian product, area, volume, repeated subtraction, sharing, number of times x goes into y, and comparisons (using objects, diagrams or equations) for decimal numbers up to the hundredths place.

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Determines numerical equivalencies using relationships between operations (the four operations), the commutative property of addition and multiplication, the associative property and the distributive property of multiplication over addition and subtraction for decimal numbers up to the <b>thousandths</b> place.		Determines numerical equivalencies using relationships between operations (the four operations), the commutative property of addition and multiplication and the associative property for decimal numbers up to the hundredths place.
Translates a situation into a series of operations in accordance with the order of operations		
<b>C. Fractions</b>		
Uses objects, diagrams or equations to represent a situation and conversely, describes a situation represented by objects, diagrams or equations (uses the different meanings of addition, subtraction and multiplication by a natural number)	Leaps and Bounds 7/8: Fraction Operations <i>Pathway 1:</i> Repeated Addition of Fractions <i>Pathway 2:</i> Adding and Subtracting Mixed Numbers <i>Pathway 3:</i> Subtracting Fractions <i>Pathway 4:</i> Adding Fractions	

<b>Arithmetic: Meaning of operations involving numbers</b>		
<b>A. Natural Numbers</b>		
Approximates the result of any of the four operations involving natural numbers	Leaps and Bounds 5/6: Multiplying Whole Numbers <i>Pathway 1:</i> Multiplying Two-Digit Numbers <i>Pathway 2:</i> Multiplying by One-Digit Numbers <i>Pathway 3:</i> Multiplication Fact Strategies  Leaps and Bounds 5/6: Dividing Whole Numbers <i>Pathway 1:</i> Dividing Three-Digit Numbers <i>Pathway 2:</i> Dividing Two-Digit Numbers <i>Pathway 3:</i> Division Fact Strategies	Uses conventional processes to determine the sum of two natural numbers of up to four digits
Develops processes for mental computation using his/her own processes to determine the product or quotient of two natural numbers		Uses conventional processes to determine the difference between two natural numbers of up to four digits whose result is greater than 0
Develops various strategies that promote mastery of number facts and relate them to the properties of multiplication		
Masters all multiplication facts (0 X 0 to 10 X 10) and the corresponding division facts		Uses his/her own processes as well as materials and drawings to determine the product or quotient of a three-digit natural number and a one-digit natural number, expresses the remainder of a division as a fraction, depending on the context
Uses conventional, written processes to determine the product of a three-digit natural number and a two-digit natural number		
Uses conventional, written processes to determine the quotient of a four-digit natural number and a two-digit natural number, expresses the remainder of a division as a decimal that does not go beyond the second decimal place		

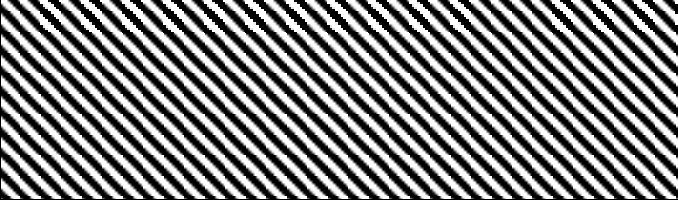
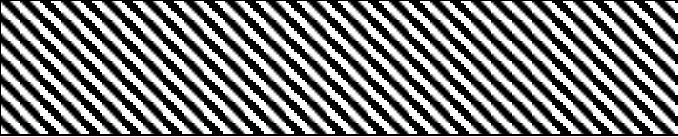
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Determines the missing term in an equation (relationships between operations) $a \times b = \square$ , $a \times \square = c$ , $\square \times b = c$ , $a \div b = \square$ , $a \div \square = c$ , $\square \div b = c$		
Decomposes a number into prime factors	Leaps and Bounds 7/8: Multiplicative Relationships <i>Pathway 1: Divisibility Rules</i>	
Determines the divisibility of a number by 2, 3, 4, 5, 6, 8, 9, 10	<i>Pathway 2: Prime Numbers and Perfect Squares</i> <i>Pathway 3: Factors and Multiples</i>	
Calculates the power of a number		
Performs a series of operations in accordance with order of operations	Leaps and Bounds 7/8: Whole Number Operations <i>Pathway 1: Order of Operations</i>	
Using his/her own words and mathematical language that is at an appropriate level for the cycle, describes a series of numbers and family operations		
Adds new terms to a series when the first three terms or more are given	Leaps and Bounds 5/6: Patterns <i>Pathway 1: Using Pattern Rules</i> <i>Pathway 2: Growing and Shrinking Patterns</i> <i>Pathway 3: Repeating Patterns</i>	
Uses a calculator and becomes familiar with memory keys and change of sign (+/-) keys		Builds a memory of multiplication facts (0 X 0 to 10 X 10) and the corresponding division facts, using objects, drawings, charts or tables

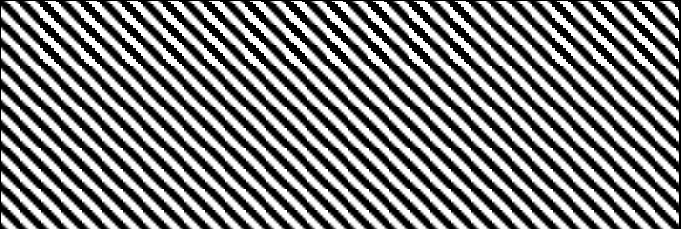
<b>B. Fractions</b>		
Generates a set of equivalent fractions	Leaps and Bounds 5/6: Comparing Fractions <i>Pathway 2: Equivalent Fractions</i>	
Reduces a fraction to its simplest form (lowest terms)		
Adds and subtracts fractions when the denominator of one of the fractions is a multiple of the other fraction(s)	Leaps and Bounds 7/8: Fraction Operations <i>Pathway 1: Repeated Addition of Fractions</i> <i>Pathway 2: Adding and Subtracting Mixed Numbers</i> <i>Pathway 3: Subtracting Fractions</i> <i>Pathway 4: Adding Fractions</i>	
Multiplies a natural number by a fraction		



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<b>C. Decimals</b>			
Approximates the result of an addition or a subtraction			
Approximates the result of a multiplication or division			
Develops processes for the mental computation of the addition and subtraction of decimals			
Develops processes for the mental computation of operations involving decimals (multiplication, division by a natural number)			
Develops processes for the mental computation of multiplying or dividing a decimal number by 10, 100, or 1000			Leaps and Bounds 5/6: Decimal Computation <i>Pathway 1: Multiply and Divide by 10 or 100</i>
Develops processes for the written computation for the multiplication of decimals whose results do not go beyond the second decimal place			Leaps and Bounds 7/8: Decimal Operations <i>Pathway 2: Dividing Decimals by Whole Numbers</i> <i>Pathway 3: Multiplying with Decimals</i> <i>Pathway 4: Adding and Subtracting Decimals</i>
Develops processes for the written computation for the division of a decimal by a natural number less than 11			
<b>D. Using Numbers</b>			
Expresses a decimal as a fraction and vice-versa			
Expresses a decimal as a percentage and vice-versa			
Expresses a fraction as a percentage and vice-versa			
Chooses and appropriate number form for a given context			
<b>Geometry</b>			
<b>A. Space</b>			
Locates objects on an axis (based on the types of numbers studied) from +/- 0.001 to +/- 1 000 000	Leaps and Bounds 7/8: Location <i>Pathway 1: Plotting Points in 4 Quadrants</i> <i>Pathway 2: Plotting Points on a Grid</i>	Locates objects in a plane	
Locates points in all four quadrants of a Cartesian plane		Locates objects on an axis (based on the types of numbers studied) from 0.01 to 100 000	
Writing ordered pairs (x, y)		Locates points in the first quadrant of a Cartesian plane	
<b>B. Solids</b>			

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Matches the net of a convex polyhedron to the corresponding convex polyhedron		Describes prisms and pyramids in terms of faces, vertices and edges Classifies prisms and pyramids Constructs a net of a prism or pyramid Matches the net of:
Tests Euler’s theorem on convex polyhedrons (for any convex polyhedron, the number of vertices and faces together is exactly two more than the number of edges)		<ul style="list-style-type: none"> <li>▪ a prism to the corresponding prism and vice versa</li> <li>▪ a pyramid to the corresponding pyramid and vice versa</li> </ul>
<b>C. Plane Figures</b>		
Describes triangles: scalene triangles, right triangles, isosceles triangles, equilateral triangles	Leaps and Bounds 5/6: 2-D Shapes <i>Pathway 1: Classifying Triangles</i>	Describes convex and nonconvex polygons (square and rhombus)
Classifies triangles: scalene triangles, right triangles, isosceles triangles, equilateral triangles		Identifies and constructs parallel lines and perpendicular lines
Describes circles: central angle, diameter, radius, circumference		Describes quadrilaterals (e.g. parallel segments, perpendicular segments, right angles, acute angles, obtuse angles)
<b>D. Frieze Patterns and Tessellations</b>		
Observes and produces frieze patterns and tessellations using translations	Leaps and Bounds 5/6: Transformations <i>Pathway 3: Multiple Translations</i> <i>Pathway 4: Single Reflections and Translations</i>  Leaps and Bounds 7/8: Transformations <i>Pathway 4: Performing Single Translations</i>	Observes and produces patterns using geometric figures  Observes and produces frieze patterns and tessellations using reflections
<b>Measurement</b>		
<b>A. Lengths</b>		
Estimates and measures the dimensions of an object using conventional units: meter, decimeter, centimeter, millimeter and <b>kilometer</b>		Estimates and measures the dimensions of an object using conventional units: meter, decimeter, centimeter and millimeter
Establishes relationships between units of measure for length: meter, decimeter, centimeter, millimeter and <b>kilometer</b>		Establishes relationships between units of measure for length: meter, decimeter, centimeter and millimeter Calculates the perimeter of plane figures
<b>B. Surface Areas</b>		

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<p>Estimates and measures surface area using conventional units (<math>m^2</math>, <math>dm^2</math>, <math>cm^2</math>)</p>	<p>Leaps and Bounds 7/8: Volume and Surface Area <i>Pathway 2: Surface Area of Prisms</i></p> <p>Leaps and Bounds 7/8: Area and Perimeter <i>Pathway 5: Area and Perimeter of Rectangles</i></p> <p>Leaps and Bounds 5/6: Area <i>Pathway 1: Area of a Rectangle</i> <i>Pathway 2: Using Standard Units of Area</i></p>	<p>Estimates and measures surface area using unconventional units</p>
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<p><b>C. Volumes</b></p>		
<p>Estimates and measures volume using conventional units (<math>m^3</math>, <math>dm^3</math>, <math>cm^3</math>)</p>	<p>Leaps and Bounds 5/6: Volume and Capacity <i>Pathway 1: Volume Related to Area of Base</i> <i>Pathway 3: Volume Cubic Centimetres</i></p> <p>Leaps and Bounds 7/8: Volume and Surface Area <i>Pathway 3: Volume of Rectangular Prisms</i></p>	<p>Estimates and measures volume using unconventional units</p>
<p><b>D. Angles</b></p>		
<p>Estimates and determines (using a protractor) the degree measurement of angles</p>	<p>Leaps and Bounds 7/8: Angles <i>Pathway 1: Drawing Angles</i> <i>Pathway 2: Measuring Angles</i></p> <p>Leaps and Bounds 5/6: Angles <i>Pathway 1: Measuring and Drawing Angles</i> <i>Pathway 2: Comparing Angles</i></p>	<p>Compares angles: Angle, right angle, acute angle, obtuse angle</p>
<p><b>E. Capacities</b></p>		
<p>Estimates and measures capacity using unconventional units</p>	<p>Leaps and Bounds 5/6: Volume and Capacity</p>	
<p>Estimates and measures capacity using conventional units</p>	<p><i>Pathway 2: Relating Volume and Capacity</i></p>	

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Establishes relationships between units of measure (e.g. 1 L = 1000 mL, ½ L = 500 mL)	<i>Pathway 4: Capacity Litres or Millilitres</i>	
<b>F. Masses</b>		
Estimates and measures mass using unconventional units	Leaps and Bounds 5/6: Mass	
Estimates and measures mass using conventional units (g, kg)	<i>Pathway 1: Mass Kilograms and Grams</i>	
Establishes relationships between units of measure (e.g. 1 kg = 1000 g, ½ kg = 500 g)	<i>Pathway 2: Mass Using One Standard Unit</i>	
	Leaps and Bounds 3/4: Mass	
	<i>Pathway 1: Mass Using Grams</i>	
	<i>Pathway 2: Mass Using Kilograms</i>	
	<i>Pathway 3: Mass Using Non-Standard Units</i>	
<b>G. Time</b>		
Establishes relationships between units of measure (1 hr = 60 min, 1 min = 60 sec)		Estimates and measures time using conventional units (daily cycle, weekly cycle, yearly cycle)
<b>H. Temperatures</b>		
Estimates and measures temperatures using conventional units (°C)		
<b>Statistics</b>		
Formulates questions for a survey (based on age-appropriate topics, students' language level, etc.)		Interprets data using a table, a bar graph, a pictograph and a broken-line graph
Collects, describes and organizes data (classifies or categorizes) <b>using tables</b>	Leaps and Bounds 3/4: Sorting and Organizing Data <i>Pathway 1: Sorting More than One Attribute</i> <i>Pathway 2: Sorting One Attribute</i>	Displays data using a table, a bar graph, a pictograph and a broken-line graph
Interprets data using a table, a bar graph, a pictograph, a broken-line graph and a <b>circle graph</b>	Leaps and Bounds 7/8: Displaying Data <i>Pathway 1: Using Circle Graphs and Line Graphs</i>	
Understands and calculates the arithmetic mean	Leaps and Bounds 7/8: Summarizing Data <i>Pathway 3: Calculating the Mean</i>	

**Leaps and Bounds Toward Math Understanding  
Elementary Cycle 3 Curriculum Correlation**

	Leaps and Bounds 5/6: Summarizing Data <i>Pathway 1: Using the Mean</i>	
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<b>Probability</b>		
When applicable, recognizes variability in possible outcomes (uncertainty)	Leaps and Bounds 7/8: Probability <i>Pathway 1: Probability: Independent Events</i> <i>Pathway 2: Theoretical Probability</i> <i>Pathway 3: Experimental Probability</i>  Leaps and Bounds 5/6: Probability <i>Pathway 1: Probability: Using Numbers</i> <i>Pathway 2: Probability: Using Words</i>	Recognizes the vocabulary related to probability: chance, random experiment, enumeration, tree diagram, certain outcome, possible outcome, impossible outcome, event, likely, just as likely, more likely, less likely, event probability
When applicable, recognizes equiprobability (e.g. quantity, symmetry of an object [cube])		
When applicable, becomes aware of the independence of events in an experiment		
Experiments with activities involving chance, using various objects (e.g. spinners, rectangular prisms, glasses, marbles, thumb tacks, 6-, 8-, 12-sided dice)		
Predicts qualitatively an outcome or several events using a probability line, among other things: <ul style="list-style-type: none"> <li>• certain, possible and impossible outcomes</li> <li>• more likely, just as likely, less likely events</li> </ul>		
Distinguishes between a prediction and an outcome		
Uses tables or diagrams to collect and display the outcomes of an experiment		
Enumerates possible outcomes of a random experiment using a table or a tree diagram		
Compares qualitatively the theoretical or experimental probability of an event		
Compares the outcomes of a random experiment with known theoretical probabilities		
Simulates random experiments with or without the use of technology		
Recognizes that probability is always between 0 and 1		
Uses fractions, decimals or percentages to quantify a probability		