

Leaps and Bounds 1/2 Quebec Correlation Cycle 1 Elementary

Curriculum Expectations Elementary Cycle 1	INTERVENTION Resources
Progression of Learning Essential Knowledge Expectations Elementary Cycle 1 (Elementary 1 and Elementary 2)	<i>Leaps and Bounds 1/2 Topics</i>
Arithmetic: Understanding and writing numbers	
A. Natural Numbers	
Counts natural numbers less than 1000, one-to-one correspondence, representation, patterns, properties (even numbers, odd numbers), number line	Topic 1: Counting <i>Subtopic: Counting Sets</i> <i>Subtopic: Counting Forwards by 1</i> <i>Subtopic: Counting Backwards by 1</i> <i>Subtopic: Skip Counting</i>
Represents natural numbers less than 1000 (units, tens, hundreds): reading, writing, digit, number, representation, classification, writing numbers in expanded form, patterns, number line	Topic 2: Representing Whole Numbers <i>Subtopic: Modelling Whole Numbers</i> <i>Subtopic: Subitizing</i> <i>Subtopic: Reading and Writing Numbers</i>
Compares natural numbers less than 1000, one-to-one correspondence, representation, comparison, order, number line	Topic 1: Counting <i>Subtopic: Counting Forwards by 1</i> <i>Subtopic: Counting Backwards by 1</i> Topic 3: Comparing Whole Numbers <i>Subtopic: Comparing Sets</i> <i>Subtopic: Comparing Numbers</i>
Identifies equivalent expressions for numbers less than 1000	Topic 3: Comparing Whole Numbers <i>Subtopic: Comparing Numbers</i> Topic 4: Adding <i>Subtopic: Decomposing and Recomposing</i> <i>Subtopic: Part-Part-Whole</i> Topic 5: Subtracting <i>Subtopic: Decomposing</i> <i>Subtopic: Comparing</i>

Approximates	Topic 2: Representing Whole Numbers <i>Subtopic: Estimating Quantities</i>
B. Fractions	
Uses and relates fractions to everyday life	
Arithmetic: Meaning of operations involving numbers	
A. Natural Numbers	
Uses objects, diagrams to represent the meaning of operation, operation sense: addition (adding, uniting, comparing), sum, term, missing term, number line	Topic 4: Adding <i>Subtopic: Decomposing and Recomposing</i> <i>Subtopic: Counting On</i> <i>Subtopic: Joining</i> <i>Subtopic: Part-Part-Whole</i>
Uses objects, diagrams to represent the meaning of operation, operation sense: subtraction (taking away, complement, comparing), difference, term, missing term, number line	Topic 5: Subtracting <i>Subtopic: Decomposing</i> <i>Subtopic: Counting Back</i> <i>Subtopic: Separating</i> <i>Subtopic: Comparing</i> <i>Subtopic: Relating Addition and Subtraction</i>
Uses objects, diagrams to represent the meaning of operation, operation sense: multiplication (repeated addition, Cartesian product) and division (repeated subtraction, sharing, number of times x goes into y)	
Chooses operation: addition, subtraction	Topic 5: Subtracting <i>Subtopic: Relating Addition and Subtraction</i>
Demonstrates an understanding of the meaning of an equality relation (equation), meaning of an equivalence relation	Topic 3: Comparing Whole Numbers <i>Subtopic: Comparing Numbers</i> Topic 4: Adding <i>Subtopic: Decomposing and Recomposing</i> Topic 5: Subtracting <i>Subtopic: Decomposing</i> <i>Subtopic: Comparing</i>
Identifies and applies relationships between the operations	Topic 5: Subtracting <i>Subtopic: Relating Addition and Subtraction</i>
Develops and applies property of operations: commutative law	Topic 4: Adding <i>Subtopic: Decomposing and Recomposing</i>

	<i>Subtopic: Part-Part-Whole</i>
Arithmetic: Meaning of operations involving numbers	
A. Natural Numbers	
Approximates the result of an operation: addition, subtraction	
Develops and uses own processes for mental computation: addition Uses operations to be memorized: additions ($0 + 0$ to $10 + 10$) related to the corresponding subtractions	Topic 4: Adding <i>Subtopic: Decomposing and Recomposing</i> <i>Subtopic: Counting On</i> <i>Subtopic: Joining</i> <i>Subtopic: Part-Part-Whole</i>
Develops and uses own processes for written computation: subtraction Uses operations to be memorized: additions ($0 + 0$ to $10 + 10$) related to the corresponding subtractions	Topic 5: Subtracting <i>Subtopic: Decomposing</i> <i>Subtopic: Counting Back</i> <i>Subtopic: Separating</i> <i>Subtopic: Comparing</i> <i>Subtopic: Relating Addition and Subtraction</i>
Uses patterns: series of numbers, family of operations	Topic 5: Subtracting <i>Subtopic: Relating Addition and Subtraction</i>
Geometry: Geometric Figures and Spatial Sense	
A. Space	
Locates objects and getting one's bearings in space, spatial relationships (e.g. in front, on, to the left)	Topic 7: 3-D Objects <i>Subtopic: Describing Positions</i>
Locates objects on an axis	
Locates objects in a plane	
B. Solids	
Compares and constructs prisms, pyramids, spheres, cylinders, cones	Topic 7: 3-D Objects <i>Subtopic: Describing and Sorting 3-D Objects</i> <i>Subtopic: Building with 3-D Objects</i>
Compares objects in the environment with solids	Topic 7: 3-D Objects <i>Subtopic: Describing and Sorting 3-D Objects</i> <i>Subtopic: Building with 3-D Objects</i>
Identifies and describes attributes (number of faces, base): prisms, pyramids	Topic 7: 3-D Objects <i>Subtopic: Describing and Sorting 3-D Objects</i> <i>Subtopic: Building with 3-D Objects</i>
C. Plane Figures	

Compares and constructs figures made with closed curved lines or closed straight lines	Topic 8: 2-D Shapes <i>Subtopic: Describing and Sorting 2-D Shapes</i> <i>Subtopic: Building with 2-D Shapes</i>
Identifies a square, rectangle, triangle, circle and rhombus	Topic 8: 2-D Shapes <i>Subtopic: Describing and Sorting 2-D Shapes</i> <i>Subtopic: Building with 2-D Shapes</i>
Describes a square, rectangle, triangle and rhombus	Topic 8: 2-D Shapes <i>Subtopic: Describing and Sorting 2-D Shapes</i> <i>Subtopic: Building with 2-D Shapes</i>
D. Frieze Patterns and Tessellations	
Identifies congruent figures	Topic 8: 2-D Shapes <i>Subtopic: Building with 2-D Shapes</i>
Measurement	
A. Lengths: estimating and measuring	
Estimates and measures dimensions of an object	Topic 9: Length and Area <i>Subtopic: Comparing Length</i> <i>Subtopic: Measuring Length with Non-standard Units</i>
Uses unconventional units: comparison, construction of rulers	Topic 9: Length and Area <i>Subtopic: Comparing Length</i> <i>Subtopic: Measuring Length with Non-standard Units</i>
Estimates and measures with conventional units (m, dm, cm)	Topic 9: Length and Area <i>Subtopic: Comparing Length</i> <i>Subtopic: Measuring Length with Non-standard Units</i>
B. Time: estimating and measuring	
Estimates and measures with conventional units, duration (day, hour, minute, second, daily cycle, weekly cycle, yearly cycle)	
Statistics	
Formulates questions for a survey	Topic 11: Sorting and Displaying Data <i>Subtopic: Creating and Interpreting Graphs</i>
Collects, describes and organizes data using tables	Topic 11: Sorting and Displaying Data <i>Subtopic: Sorting</i>
Interprets data using a bar graph, a pictograph and a data table	Topic 11: Sorting and Displaying Data <i>Subtopic: Creating and Interpreting Graphs</i>
Displays data using a bar graph, a pictograph and a data table	Topic 11: Sorting and Displaying Data

	<i>Subtopic: Creating and Interpreting Graphs</i>
Probability	
Experiments with activities involving chance	
Predicts the likelihood of an event (certainty, possibility or impossibility)	
Enumerates the possible outcomes of a simple random experiment	