Mathletics
Quebec Progression of Learning
Activities (Courses) and Skill Quests

Grades 1-2

July, 2025

Mathletics

Grade 1

1 Arithmetic

1.1 Understanding and writing numbers

1.A.U.A1	
Natural numbers less than 1000. 1. Counts or recites counting rhymes involving natural numbers a. counts forward from a given number b. counts forward or backward c. skip counts (e.g. by twos)	
Course Topics	**Activities**
Arithmetic-Counting	Counting by Twos
	Counting by Fives
	Counting by Tens
	Skip Counting
Arithmetic-Ordering and Comparing	Order Numbers to 10
	Order Numbers to 20
	Going Up
	Going Down
	Number Line Order
Topics	**Skill Quests**
Count forward & back within 100	Counting forward & backward in ones within 100
Skip count by 2, 5 & 10	Skip counting forward & backward by 2s up to 50
	Skip counting forward & backward by 5s up to 100
	Skip counting forward & backward by 10s to 100
	Skip counting by 2s, 5s & 10s up to 100

1.A.U.A2	
Natural numbers less than 1000 2. Counts collections (using objects or drawings) a. matches the gesture to the corresponding number word; recognizes the cardinal aspect of a number and the conservation of number in various combinations b. counts from a given number c. counts a collection by grouping or regrouping	
Course Topics	**Activities**
Arithmetic-Ordering and Comparing	How Many?
	How many dots?
	More or Less?
	How many Blocks?
	Making Teen Numbers
	Comparing Groups of Objects
Topics	**Skill Quests**
Create & count collections to 100	Understanding conservation of numbers to 30
	Creating & counting collections to 20
	Creating & counting collections up to 100
Find numbers before & after to 100	Finding numbers before & after to 100

1.A.U.A3	
Natural numbers less than 1000. 3. Reads and writes any natural number.	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Read, write & represent 2-digit numbers	Connecting number names & numerals to 100

1.A.U.A4	
Natural numbers less than 1000 4. Represents natural numbers in different ways or associates a number with a set of objects or drawings a. emphasis on apparent, accessible groupings using objects, drawings or unstructured materials	
Course Topics	**Activities**
Arithmetic-Counting	Making Numbers Count
	Making Big Numbers Count
	Make Numbers Count
	Model Numbers
Arithmetic-Ordering and Comparing	Compare Numbers to 100
Operations-Addition and Subtraction	1 More, 10 Less
	1 More, 2 Less
Topics	**Skill Quests**
Represent 2-digit numbers different ways	Representing 2-digit numbers in different ways

1.A.U.A5	
Natural numbers less than 1000. 5. Composes and decomposes a natural number in a variety of ways.	
Course Topics	**Activities**
Arithmetic-Counting	Model Numbers
Arithmetic-Ordering and Comparing	Making Teen Numbers
Operations-Addition and Subtraction	Mental Addition
	Complements to 50 and 100
	Complements to 10, 20, 50
	Decompose Numbers to Subtract
Topics	**Skill Quests**
Partition numbers to 100	Standard partitioning of 2-digit numbers
	Non-standard partitioning of 2-digit numbers

1.A.U.A6
Natural numbers less than 1000. 6. Identifies equivalent expressions (e.g. 52 = 40 + 12, 25 + 27 = 40 + 12, 52 = 104 ÷ 2)

Course Topics	Activities
Teacher directed	
Topics	**Skill Quests**
Recognize equivalent number sentences	Recognizing equality in numbers up to 50

1.A.U.A7
Natural numbers less than 1000. 7. Compares natural numbers

Course Topics	Activities
Arithmetic-Ordering and Comparing	Compare Numbers to 100
	Which is Bigger?
	Which is Smaller?
Topics	**Skill Quests**
Compare numbers within 100	Comparing numbers up to 100

1.A.U.A8
Natural numbers less than 1000. 8. Arranges natural numbers in increasing or decreasing order

Course Topics	Activities
Arithmetic-Ordering and Comparing	Comparing Groups of Objects
	Ascending Order
	Descending Order
Topics	**Skill Quests**
Order numbers within 100	Ordering numbers & collections within 100

1.A.U.A9
Natural numbers less than 1000 9. 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)

Course Topics	Activities
Arithmetic-Counting	Skip Counting
Operations-Patterns	Describing Patterns
Topics	**Skill Quests**
Describe patterns as odd or even	Recognizing odd & even number patterns

1.A.U.A10
Natural numbers less than 1000. 10. Locates natural numbers using different visual aids (e.g. hundreds chart, number strip, number line)

Course Topics	Activities
Arithmetic-Counting	1st to 31st
Arithmetic-Ordering and Comparing	Number Line Order
	Number Lines
Topics	Skill Quests
Teacher directed	

1.A.U.A11
Natural numbers less than 1000. 11. Identifies properties of natural numbers a. odd or even numbers

Course Topics	Activities
Teacher directed	
Topics	Skill Quests
Teacher directed	

1.A.U.A12
Natural numbers less than 1000. 12. Classifies natural numbers in various ways, based on their properties (e.g. even numbers, composite numbers)

Course Topics	Activities
Arithmetic-Counting	Odd and Even Numbers 1
Topics	Skill Quests
Investigate properties of numbers	Investigating properties of odd & even numbers

1.A.U.A13
Natural numbers less than 1000. 13. Approximates a collection, using objects or drawings (e.g. estimate, round up/down to a given value)

Course Topics	Activities
Arithmetic-Counting	Nearest 10?
	Nearest 100?
Topics	Skill Quests
Round numbers	Rounding numbers up to 100

1.A.U.B1
Fractions (using objects or drawings) 1. Identifies fractions related to everyday items (using objects or drawing)

Course Topics	Activities
Teacher directed	
Topics	Skill Quests
Teacher directed	

1.A.U.B2	
Fractions (using objects or drawings) 2. Represents a fraction in a variety of ways, based on a whole or a collection of objects	
Course Topics	**Activities**
Arithmetic-Counting	Halves and Quarters
Topics	**Skill Quests**
Fractions - halves	Finding halves

1.2 Meaning of operations involving numbers

1.A.M.A1	
Natural numbers less than 1000. 1. Determines the operation(s) to perform in a given situation	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Solve addition & subtraction problems	Creating addition & subtraction problems within 20

1.A.M.A2	
Natural numbers less than 1000. 2. Uses objects, diagrams or equations to represent a situation and conversely, describes a situation represented by objects, diagrams or equations (use of different meanings of addition and subtraction) a. transformation (adding, taking away), uniting, comparing	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Model addition to 10	Modelling & recording combinations to 10

1.A.M.A3	
Natural numbers less than 1000. 3. Uses object, diagrams or equations to represent a situation and conversely, describes a situation represented by objects, diagrams or equations (use of different means of multiplication and division) a. rectangular arrays, repeated addition, Cartesian product, sharing, and number of times x goes into y (using objects and diagrams)	
Course Topics	**Activities**
Arithmetic-Counting	Groups of Ten
Operations-Addition and Subtraction	Share the Treasure
Topics	**Skill Quests**
Multiply by equal grouping	Grouping & skip counting to multiply
Divide by equal grouping	Sharing to divide up to 20
	Grouping to divide

1.A.M.A4	
Natural numbers less than 1000. 4. Establishes equality relations between numerical expressions	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Find equality in expressions	Recognizing equality in addition & subtraction

1.A.M.A5	
Natural numbers less than 1000. 5. Determines numerical equivalences using relationships between. a. operations (addition and subtraction) and the commutative property of addition	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Commutative properties of addition	Introducing the commutative property of addition

1.3 Operations involving numbers

1.A.O.A1	
Natural numbers (less than 1000). 1. Approximates the result of a. an addition or subtraction involving natural numbers	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

1.A.O.A2	
Natural numbers (less than 1000). 2. Builds a repertoire of memorized addition and subtraction facts. a. Builds a memory of addition facts (0 + 0 to 10 + 10) and the corresponding subtraction facts, using objects, drawings, charts or tables b. Develops various strategies that promote mastery of number facts and relates them to the properties of addition c. Masters all addition facts (0 + 0 to 10 + 10) and the corresponding subtraction facts	
Course Topics	**Activities**
Arithmetic-Ordering and Comparing	Balance Numbers to 20
	Balance Additions to 20
Operations-Addition and Subtraction	Model Addition
	Addition Facts to 18
	Model Subtraction
	Subtraction Facts to 18
	Add and Subtract Using Graphs
	Balance Numbers to 10
	Add and Subtract Problems
Topics	**Skill Quests**
Addition & subtraction facts to 10	Ways to make 10
	Adding & subtracting within 10

1.A.O.A3

Natural numbers (less than 1000). 3. Develops processes for mental computation. a. Uses his/her own processes to determine the sum or difference of two natural numbers

Course Topics	Activities
Arithmetic-Ordering and Comparing	Balance Numbers to 20
	Balance Additions to 20
Operations-Addition and Subtraction	Model Addition
	Addition Facts to 18
	Model Subtraction
	Subtraction Facts to 18
	Add and Subtract Using Graphs
	Balance Numbers to 10
	Add and Subtract Problems
Topics	**Skill Quests**
Mental strategies addition & subtraction	Adding single numbers
	Adding & subtracting within 20
	Doubles & near doubles to 20
	Using a bar model to add & subtract to 20
	Adding & subtracting zero to 20
	Strategies to add 1-digit numbers

1.A.O.A4

Natural numbers (less than 1000). 4. Develops processes for written computation (addition and subtraction). a. Uses his/her own processes as well as objects and drawings to determine the sum or difference of two natural numbers less than 1000

Course Topics	Activities
Arithmetic-Ordering and Comparing	How many Blocks?
Operations-Addition and Subtraction	All about Twenty
	Mental Addition
	Missing Values
	Model Addition
	Addition Facts to 18
	Model Subtraction
	Subtraction Facts to 18
	Complements to 50 and 100
	Complements to 10, 20, 50
	1 More, 10 Less
	1 More, 2 Less
	Add and Subtract Problems
	Decompose Numbers to Subtract
Topics	**Skill Quests**
Teacher directed	

1.A.O.A5

Natural numbers (less than 1000). 5. Determines the missing term in an equation (relationships between operations) a + b = □, a + □ = c, □ + b = c, a − b = □, a − □ = c, □ − b = c

Course Topics	Activities
Operations-Addition and Subtraction	All about Twenty
	Missing Values
	Add and Subtract Using Graphs
	Complements to 50 and 100
	Complements to 10, 20, 50
	Balance Numbers to 10
Topics	**Skill Quests**
Find missing term in add/subtract	Finding the missing term in addition & subtraction

1.A.O.A13

Natural numbers (less than 1000) 13. Using his/her own words and mathematical language that is at an appropriate level for the cycle, describes a. non-numerical patterns (e.g. series of colours, shapes, sounds, gestures) b. numerical patterns (e.g. number rhymes, tables and charts) c. series of numbers and family operations

Course Topics	Activities
Teacher directed	
Topics	**Skill Quests**
Repeating patterns	Recognizing repeating patterns
	Creating repeating patterns

1.A.O.A14

Natural numbers (less than 1000). 14. Adds new terms to a series when the first three terms or more are given

Course Topics	Activities
Operations-Patterns	Increasing Patterns
	Increasing Patterns 1
	Pick the Next Number
	Count Forward Patterns
	Count Backward Patterns
Topics	**Skill Quests**
Extend & copy repeating patterns	Extending repeating patterns
	Copying a repeating pattern

1.A.O.A15	
Natural numbers (less than 1000). 15. Uses a calculator and a. becomes familiar with its basic functions (+, -, =, 0 to 9 number keys, all clear, clear)	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

2 Geometry

2.1 Geometry

1.G.A1	
Space. 1. Gets his/her bearings and locates objects in space (spatial awareness)	
Course Topics	**Activities**
Geometry	Left or Right?
Topics	**Skill Quests**
Position & direction	Describing position & direction

1.G.A2	
Space. 2. Locates objects in a plane	
Course Topics	**Activities**
Geometry	Following Directions
	Coordinate Meeting Place
Topics	**Skill Quests**
Locate objects	Locating objects

1.G.A3	
Space. 3. Locates objects on an axis (based on the types of numbers studied)	
Course Topics	**Activities**
Geometry	Coordinate Meeting Place
Topics	**Skill Quests**
Teacher directed	

1.G.A4	
Space. 4. Locates points in a Cartesian plane. a. in the first quadrant	
Course Topics	**Activities**
Geometry	Map Coordinates
	Coordinate Graphs: 1st Quadrant
Topics	**Skill Quests**
Teacher directed	

1.G.B1

Solids. 1. Compares objects or parts of objects in the environment with solids(e.g. spheres, cones, cubes, cylinders, prisms, pyramids)

Course Topics	Activities
Geometry	Match the Object
Topics	**Skill Quests**
Introduce 3D objects	Introducing spheres
	Introducing cones
	Introducing cubes
	Introducing cylinders
	Introducing prisms
	Introducing pyramids

1.G.B2

Solids. 2.Compares and constructs solids(e.g. spheres, cones, cubes, cylinders, prisms, pyramids)

Course Topics	Activities
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

1.G.B3

Solids. 3. Identifies the main solids

Course Topics	Activities
Geometry	Collect the Objects
Topics	**Skill Quests**
Identify main solids	Naming main solids

1.G.B4

Solids. 4. Identifies and represents the different faces of a prism or pyramid

Course Topics	Activities
Geometry	Collect the Objects
	Relate Shapes and Solids
Topics	**Skill Quests**
Introduce surfaces in solids	Introducing surfaces

1.G.C1

Plane figures. 1. Compares and constructs figures made with closed curved lines or closed straight lines

Course Topics	Activities
Geometry	Collect the Shapes
Topics	**Skill Quests**
Compare plane shapes	Comparing plane shapes

1.G.C2	
Plane figures. 2. Identifies plane figures (square, rectangle, triangle, rhombus and circle	
Course Topics	**Activities**
Geometry	Collect the Shapes
Topics	**Skill Quests**
Identify plane figures	Sorting quadrilaterals

1.G.C3	
Plane figures 3. Describes plane figures (square, rectangle, triangle and rhombus)	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

1.G.D1	
Frieze patterns and tessellations. 1. Identifies congruent figures	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

1.G.D2	
Frieze patterns and tessellations. 2. Observes and produces patterns using geometric figures	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

3 Measurement

3.1 Measurement

1.M.A1	
Lengths. 1. Compares length	
Course Topics	**Activities**
Measurement	Comparing Length
	Everyday Length
	Compare Length
Topics	**Skill Quests**
Teacher directed	

1.M.A2	
Lengths. 2. Constructs rulers	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

1.M.A3	
Lengths. 3. Estimates and measures the dimensions of an object using unconventional units	
Course Topics	**Activities**
Measurement	Measuring Length with Blocks
Topics	**Skill Quests**
Measure lengths informally	Measuring lengths – informal

1.M.A4	
Lengths. 4. Estimates and measures the dimensions of an object using conventional units. a. metre, decimetre and centimetre	
Course Topics	**Activities**
Measurement	How Long is That?
Topics	**Skill Quests**
Teacher directed	

1.M.G1	
Time. 1. Estimates and measures time using conventional units	
Course Topics	**Activities**
Measurement	Hour Times
	Half Hour Times
	Tell Time to the Half Hour
Topics	**Skill Quests**
Measures of time	Introducing days & months

1.M.G2	
Time. 2. Establishes relationships between units of measure	
Course Topics	**Activities**
Measurement	Hour Times
	Half Hour Times
	Tell Time to the Half Hour
Topics	**Skill Quests**
Teacher directed	

1.M.H1	
Temperature. 1. Estimates and measures temperature using conventional units	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

4 Statistics

4.1 Statistics

1.S.1	
Statistics. 1. Formulates questions for a survey (based on age-appropriate topics, students' language level, etc)	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Choose questions for surveys	Choosing suitable questions for surveys

1.S.2	
Statistics. 2. Collects, describes and organizes data (classifies or categorizes) using tables	
Course Topics	**Activities**
Statistics and Probability	Sort It
Topics	**Skill Quests**
Gather & record data	Gathering & recording data
	Introducing tally charts

1.S.3	
Statistics. 3. Interprets data using a. a table, a bar graph and a pictograph	
Course Topics	**Activities**
Statistics and Probability	Who has the Goods?
	Pictographs
	Bar Graphs 1
	Interpreting Tables
	Bar Graphs 2
Topics	**Skill Quests**
Interpret data	Reading simple data displays

1.S.4	
Statistics. 4. Displays data using a. a table, a bar graph and a pictograph	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Represent data	Representing data in a simple display

5 Probability

5.1 Probability

1.P.1
Probability. 1. When applicable, recognizes variability in possible outcomes (uncertainty)

Course Topics	Activities
Teacher directed	
Topics	**Skill Quests**
Recognize variability	Exploring possible outcomes

1.P.2
Probability. 2. When applicable, recognizes equiprobability (e.g. quantity, symmetry of an object [cube])

Course Topics	Activities
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

1.P.3
Probability. 3. When applicable, becomes aware of the independence of events in an experiment

Course Topics	Activities
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

1.P.4
Probability. 4. Experiments with activities involving chance, using various objects (e.g. spinners, rectangular prisms, glasses, marbles, thumb tacks, 6-, 8- or 12-sided dice)

Course Topics	Activities
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

1.P.5
Probability. 5. Predicts qualitatively an outcome or several events using a probability line, among other things a. certain, possible or impossible outcome

Course Topics	Activities
Statistics and Probability	What are the Chances?
	Will it Happen?
	Most Likely and Least Likely
Topics	**Skill Quests**
Teacher directed	

1.P.6	
Probability. 6. Distinguishes between prediction and outcome	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

1.P.7	
Probability. 7. Uses tables or diagrams to collect and display the outcomes of an experiment	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

1.P.8	
Probability. 8. Enumerates possible outcomes of a. a simple random experiment	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

Grade 2

1 Arithmetic

1.1 Understanding and writing numbers

2.A.U.A1	
Natural numbers less than 1000. 1. Counts or recites counting rhymes involving natural numbers a. counts forward from a given number b. counts forward or backward c. skip counts (e.g. by twos)	
Course Topics	**Activities**
Numbers 1	Going Up
	Number Line Order
	Going Down
	Counting by Twos
	Counting by Fives
	Counting by Tens
	Order Numbers to 20
	Skip Counting
Topics	**Skill Quests**
Count forward & backward within 1000	Counting forward & backward by 1s within 1000
	Skip counting forward & backward by 2s to 200
	Skip counting forward & backward by 5s to 200
	Skip counting forward & backward by 10s to 200

2.A.U.A2	
Natural numbers less than 1000. 2. Counts collections (using objects or drawings). b. counts from a given number. c. counts a collection by grouping or regrouping	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Identify numbers before & after to 1000	Identifying numbers before & after within 1000
Count in hundreds, tens & ones	Counting in hundreds, tens & ones
Count collection by grouping	Counting large collections by grouping

2.A.U.A3	
Natural numbers less than 1000. 3. Reads and writes any natural number	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Read, write & represent 3-digit numbers	Reading, writing & representing 3-digit numbers

2.A.U.A4

Natural numbers less than 1000 4. Represents natural numbers in different ways or associates a number with a set of objects or drawings. a. emphasis on apparent, accessible groupings using objects, drawings or unstructured materials,(e.g. tokens, nesting cubes, groups of ten objects placed inside a bag and ten of these bags placed inside another container) b. emphasis on exchanging apparent, non-accessible groupings, using structured materials,(e.g. base ten blocks, number tables)

Course Topics	Activities
Numbers 1	Compare Numbers to 100
Numbers 2	Making Big Numbers Count
	Model Numbers

Topics	Skill Quests
Represent numbers in different ways	Using groups to represent 3-digit numbers

2.A.U.A5

Natural numbers less than 1000. 5. Composes and decomposes a natural number in a variety of ways (e.g. $123 = 100 + 23$, $123 = 100 + 20 + 3$, $123 = 50 + 50 + 20 + 3$, $123 = 2 \times 50 + 30 - 7$, $123 = 2 \times 60 + 3$)

Course Topics	Activities
Numbers 2	Model Numbers
Operations with Numbers 1	Complements to 50 and 100
	Complements to 10, 20, 50

Topics	Skill Quests
Partition numbers within 1000	Standard partitioning within 1000
	Non-standard partitioning within 1000

2.A.U.A6

Natural numbers less than 1000. 6. Identifies equivalent expressions (e.g. $52 = 40 + 12$, $25 + 27 = 40 + 12$, $52 = 104 \div 2$)

Course Topics	Activities
Teacher directed	

Topics	Skill Quests
Equality & inequality	Recognizing equality
	Representing equality & inequality

2.A.U.A7

Natural numbers less than 1000. 7. Compares natural numbers

Course Topics	Activities
Numbers 1	Compare Numbers to 100
Numbers 2	Which is Bigger?
	Which is Smaller?

Topics	Skill Quests
Compare numbers within 1000	Comparing numbers within 1000

2.A.U.A8	
Natural numbers less than 1000. 8. Arranges natural numbers in increasing or decreasing order	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Order numbers within 1000	Ordering numbers within 1000

2.A.U.A9	
Natural numbers less than 1000. 9. 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)	
Course Topics	**Activities**
Numbers 1	Skip Counting
Topics	**Skill Quests**
Teacher directed	

2.A.U.A10	
Natural numbers less than 1000. 10. Locates natural numbers using different visual aids (e.g. hundreds chart, number strip, number line)	
Course Topics	**Activities**
Numbers 1	Number Line Order
Topics	**Skill Quests**
Teacher directed	

2.A.U.A11	
Natural numbers less than 1000. 11. Identifies properties of natural numbers. a. odd or even numbers	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

2.A.U.A12	
Natural numbers less than 1000. 12. Classifies natural numbers in various ways, based on their properties (e.g. even numbers, composite numbers)	
Course Topics	**Activities**
Numbers 2	Odd and Even Numbers 1
Topics	**Skill Quests**
Investigate odd & even numbers	Investigating odd & even numbers

2.A.U.A13	
Natural numbers less than 1000. 13. Approximates a collection, using objects or drawings (e.g. estimate, round up/down to a given value)	
Course Topics	**Activities**
Numbers 2	Nearest 100?
Topics	**Skill Quests**
Round up & down within 1000	Rounding up & down within 1000

2.A.U.B1	
Fractions (using objects or drawings). 1. Identifies fractions related to everyday items (using objects or drawing)	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

2.A.U.B2	
Fractions (using objects or drawings). 2. Represents a fraction in a variety of ways, based on a whole or a collection of objects	
Course Topics	**Activities**
Numbers 2	Halves and Quarters
Topics	**Skill Quests**
Fractions	Recognizing & finding quarters
	Finding halves & quarters

1.2 Meaning of operations involving numbers

2.A.M.A1	
Natural numbers less than 1000. 1. Determines the operation(s) to perform in a given situation	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Determine operation to use	Create & solve addition & subtraction problems

2.A.M.A2	
Natural numbers less than 1000. 2. Uses objects, diagrams or equations to represent a situation and conversely, describes a situation represented by objects, diagrams or equations (use of different meanings of addition and subtraction). a. transformation (adding, taking away), uniting, comparing	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

2.A.M.A3
Natural numbers less than 1000. 3. Uses object, diagrams or equations to represent a situation and conversely, describes a situation represented by objects, diagrams or equations (use of different means of multiplication and division). a. rectangular arrays, repeated addition, Cartesian product, sharing, and number of times x goes into y (using objects and diagrams)

Course Topics	Activities
Operations with Numbers 2	Groups of Two
	Groups of Ten
	Groups of Five
	Groups of Three
	Groups of Six
	Groups of Nine
	Groups of Four
	Groups of Eight
	Groups of Seven
	Share the Treasure
	Fill the Jars
Topics	**Skill Quests**
Multiply by equal grouping	Introducing arrays
	Using repeated addition
Divide by equal grouping	Dividing by sharing & grouping
	Dividing by repeated subtraction

2.A.M.A4
Natural numbers less than 1000 . 4. Establishes equality relations between numerical expressions

Course Topics	Activities
Teacher directed	
Topics	**Skill Quests**
Find equality in expressions	Solving add & subtract equality problems to 20

2.A.M.A5
Natural numbers less than 1000. 5. Determines numerical equivalences using relationships between. a. operations (addition and subtraction) and the commutative property of addition

Course Topics	Activities
Teacher directed	
Topics	**Skill Quests**
Commutative properties of addition	Using the commutative property for addition to 20

1.3 Operations involving numbers

2.A.O.A1	
Natural numbers (based on the benchmarks for each cycle). 1. Approximates the result of a. an addition or subtraction involving natural numbers	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Use estimation in addition & subtraction	Estimating sums & differences

2.A.O.A2	
Natural numbers (based on the benchmarks for each cycle) 2. Builds a repertoire of memorized addition and subtraction facts a. Builds a memory of addition facts (0 + 0 to 10 + 10) and the corresponding subtraction facts, using objects, drawings, charts or tables b. Develops various strategies that promote mastery of number facts and relates them to the properties of addition c. Masters all addition facts (0 + 0 to 10 + 10) and the corresponding subtraction facts	
Course Topics	**Activities**
Operations with Numbers 1	Addition Facts to 18
	Subtraction Facts to 18
	Balance Numbers to 10
	Balance Numbers to 20
Topics	**Skill Quests**
Memorize addition & subtraction facts	Bonds to 10

2.A.O.A3	
Natural numbers (based on the benchmarks for each cycle). 3. Develops processes for mental computation. a. Uses his/her own processes to determine the sum or difference of two natural numbers	
Course Topics	**Activities**
Operations with Numbers 1	Addition Facts to 18
	Subtraction Facts to 18
	Balance Numbers to 10
	Balance Numbers to 20
Topics	**Skill Quests**
Addition using mental strategies	Adding 2-digit & 1-digit numbers using place value
	Adding by bridging to 10 with 2- & 1-digit numbers
	Adding tens to a 2-digit number using models
	Adding two 2-digit numbers using place value
	Adding by compensating
Subtraction using mental strategies	Subtracting by bridging to 10
	Subtracting 2- & 1-digit numbers using place value
	Subtracting using mixed strategies
	Subtracting tens from a 2-digit number
	Subtracting two 2-digit numbers using place value
	Subtracting two 2-digit numbers on a number line
	Subtracting by compensating
Add & subtract using mental strategies	Using the relationship of addition & subtraction
	Adding & subtracting using mixed strategies

2.A.O.A4

Natural numbers (based on the benchmarks for each cycle). 4. Develops processes for written computation (addition and subtraction). a. Uses his/her own processes as well as objects and drawings to determine the sum or difference of two natural numbers less than 1000

Course Topics	Activities
Operations with Numbers 1	All about Twenty
	Addition Facts to 18
	Subtraction Facts to 18
	Complements to 50 and 100
	Complements to 10, 20, 50
Topics	**Skill Quests**
Add & subtract using a number line	Adding two 2-digit numbers using a number line
	Subtracting 2-digit numbers using a number line

2.A.O.A5

Natural numbers (based on the benchmarks for each cycle). 5. Determines the missing term in an equation (relationships between operations) a + b = □, a + □ = c, □ + b = c, a − b = □, a − □ = c, □ − b = c

Course Topics	Activities
Operations with Numbers 1	All about Twenty
	Complements to 50 and 100
	Complements to 10, 20, 50
	Balance Numbers to 10
	Balance Numbers to 20
Topics	**Skill Quests**
Find a missing term	Finding missing number in add/sub up to 18

2.A.O.A13

Natural numbers (based on the benchmarks for each cycle). 13. Using his/her own words and mathematical language that is at an appropriate level for the cycle, describes. a. non-numerical patterns (e.g. series of colours, shapes, sounds, gestures) b. numerical patterns (e.g. number rhymes, tables and charts) c. series of numbers and family operations

Course Topics	Activities
Teacher directed	
Topics	**Skill Quests**
Non-numerical & numerical patterns	Exploring visual patterns
	Exploring patterns with transformations
	Identifying & describing number patterns to 100

2.A.O.A14	
Natural numbers (based on the benchmarks for each cycle). 14. Adds new terms to a series when the first three terms or more are given	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Extend number patterns	Extending number patterns to 100

2.A.O.A15	
Natural numbers (based on the benchmarks for each cycle). 15. Uses a calculator and. a. becomes familiar with its basic functions (+, -, =, 0 to 9 number keys, all clear, clear)	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

2 Geometry

2.1 Geometry

2.G.A1	
Space. 1. Gets his/her bearings and locates objects in space (spatial awareness)	
Course Topics	**Activities**
Geometry	Left or Right?
Topics	**Skill Quests**
Describe position	Describing position

2.G.A2	
Space. 2. Locates objects in a plane	
Course Topics	**Activities**
Geometry	Following Directions
	Coordinate Meeting Place
Topics	**Skill Quests**
Locate objects on images	Locating objects using images

2.G.A3	
Space. 3. Locates objects on an axis (based on the types of numbers studied)	
Course Topics	**Activities**
Geometry	Coordinate Meeting Place
Topics	**Skill Quests**
Teacher directed	

2.G.A4	
Space. 4. Locates points in a Cartesian plane. a. in the first quadrant	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

2.G.B1	
Solids. 1. Compares objects or parts of objects in the environment with solids(e.g. spheres, cones, cubes, cylinders, prisms, pyramids)	
Course Topics	**Activities**
Geometry	Match the Object
Topics	**Skill Quests**
Compare 3D objects in the environment	Comparing 3D objects in the environment

| **2.G.B2** ||
| Solids. 2.Compares and constructs solids(e.g. spheres, cones, cubes, cylinders, prisms, pyramids) ||
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Compare 3D shapes	Comparing 3D shapes

| **2.G.B3** ||
| Solids. 3. Identifies the main solids ||
Course Topics	**Activities**
Geometry	Collect the Objects
Topics	**Skill Quests**
Recognize main solids	Recognizing, sorting & naming main solids

| **2.G.B4** ||
| Solids. 4. Identifies and represents the different faces of a prism or pyramid ||
Course Topics	**Activities**
Geometry	Collect the Objects
	Relate Shapes and Solids
Topics	**Skill Quests**
Identify faces of prisms & pyramids	Identifying faces of prisms & pyramids

| **2.G.B8** ||
| Solids. 8. Matches the net of a. a prism to the corresponding prism and vice versa. b. a pyramid to the corresponding pyramid and vice versa ||
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Match nets to 3D objects	Matching nets to prisms

| **2.G.C1** ||
| Plane figures. 1. Compares and constructs figures made with closed curved lines or closed straight lines ||
Course Topics	**Activities**
Geometry	Collect the Shapes
Topics	**Skill Quests**
Compare plane shapes	Comparing 2D shapes

2.G.C2
Plane figures. 2. Identifies plane figures (square, rectangle, triangle, rhombus and circle

Course Topics	Activities
Geometry	Collect the Shapes
Topics	**Skill Quests**
Teacher directed	

2.G.C3
Plane figures . 3. Describes plane figures (square, rectangle, triangle and rhombus)

Course Topics	Activities
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

2.G.D1
Frieze patterns and tessellations. 1. Identifies congruent figures

Course Topics	Activities
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

2.G.D2
Frieze patterns and tessellations. 2. Observes and produces patterns using geometric figures

Course Topics	Activities
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

3 Measurement

3.1 Measurement

2.M.A1	
Lengths. 1. Compares length	
Course Topics	**Activities**
Measurement	Everyday Length
	Comparing Length
Topics	**Skill Quests**
Compare non-standard lengths	Comparing non-standard lengths

2.M.A2	
Lengths. 2. Constructs rulers	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

2.M.A3	
Lengths. 3. Estimates and measures the dimensions of an object using unconventional units	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

2.M.A4	
Lengths. 4. Estimates and measures the dimensions of an object using conventional units. a. metre, decimetre and centimetre	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Measure length	Measuring lengths - cm

2.M.G1	
Time. 1. Estimates and measures time using conventional units	
Course Topics	**Activities**
Measurement	Set Time to the Hour
	Set Time to the Half Hour
Topics	**Skill Quests**
Measure time using conventional units	Using calendars
	Introducing minutes
	Choosing appropriate units of time
	Reading digital time (hour & half-hour)

2.M.G2	
Time. 2. Establishes relationships between units of measure	
Course Topics	**Activities**
Measurement	Set Time to the Hour
	Set Time to the Half Hour
Topics	**Skill Quests**
Teacher directed	

2.M.H1	
Temperature. 1. Estimates and measures temperature using conventional units	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

4 Statistics

4.1 Statistics

2.S.1	
Statistics. 1. Formulates questions for a survey (based on age-appropriate topics, students' language level, etc)	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

2.S.2	
Statistics. 2. Collects, describes and organizes data (classifies or categorizes) using tables	
Course Topics	**Activities**
Statistics and Probability	Sort It
Topics	**Skill Quests**
Collect & organize data	Collecting & organizing data

2.S.3	
Statistics. 3. Interprets data using a. a table, a bar graph and a pictograph	
Course Topics	**Activities**
Statistics and Probability	Sorting Data
	Who has the Goods?
	More or Less?
	Tallies
Topics	**Skill Quests**
Interpret graphs & tables	Data in pictographs
	Data in tally charts
	Data in tables
	Data in bar graphs

2.S.4	
Statistics. 4. Displays data using. a. a table, a bar graph and a pictograph	
Course Topics	**Activities**
Statistics and Probability	Tallies
	Making Graphs
Topics	**Skill Quests**
Represent data	Representing & reading data

5 Probability

5.1 Probability

2.P.1	
Probability. 1. When applicable, recognizes variability in possible outcomes (uncertainty)	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Understand language of probability	Understanding the language of probability

2.P.2	
Probability. 2. When applicable, recognizes equiprobability (e.g. quantity, symmetry of an object [cube])	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

2.P.3	
Probability. 3. When applicable, becomes aware of the independence of events in an experiment	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

2.P.4	
Probability. 4. Experiments with activities involving chance, using various objects (e.g. spinners, rectangular prisms, glasses, marbles, thumb tacks, 6-, 8- or 12-sided dice)	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

2.P.5	
Probability. 5. Predicts qualitatively an outcome or several events using a probability line, among other things a. certain, possible or impossible outcome	
Course Topics	**Activities**
Statistics and Probability	What are the Chances?
Topics	**Skill Quests**
Teacher directed	

2.P.6	
Probability. 6. Distinguishes between prediction and outcome	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Describe predictions & outcomes	Describing predictions & outcomes

2.P.7	
Probability. 7. Uses tables or diagrams to collect and display the outcomes of an experiment	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

2.P.8	
Probability. 8. Enumerates possible outcomes of a. a simple random experiment	
Course Topics	**Activities**
Teacher directed	
Topics	**Skill Quests**
Teacher directed	

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