

Mathletics

Quebec Curriculum Alignment with Mathletics

Supported by independent evidence-based research and practice.



Mathletics

Quebec Curriculum

Alignment with Mathletics

Table of Contents

Quebec POL Cycle One	02
Quebec POL Cycle Two	11
Quebec POL Cycle Three	29

Quebec Curriculum

Alignment with Mathletics

Mathletics

Mathletics and the Quebec Curriculum

The education team at Mathletics is committed to providing a resource that is powerful, targeted, and most important, relevant to all students.

Mathletics includes well over 1200 individual adaptive practice activities and eBooks available for all cycles. Our team of education publishers has created a course that specifically follows the Quebec curriculum. You can be assured that students have access to relevant and targeted content.

Strands, sub-strand, and learning expectations of the curriculum are supported with activities, each with pre and post assessment. What's more, Mathletics contains an extensive library of eBook—for use on screen or as a printable resource—that are also mapped to the requirements of the Quebec curriculum.

This document outlines this mapping and acts as a useful guide when using Mathletics in your school.



Engage



Target



Diagnose



Assess



Report



Fluency





Mobile

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle One

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1000	QC1.A.1.A.1a	Counts forward from a given number.	Counting Backward Counting Forward Going Up Going Down	Grade 1 Numbers Grade 2 Numbers
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1000	QC1.A.1.A.1b	Counts forward or backward.	Counting Backward Counting Forward Going Up Going Down	Grade 1 Numbers Grade 2 Numbers
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1000	QC1.A.1.A.1c	Skip counts (e.g. by twos).	Counting by Twos Counting by Fives Counting by Tens Skip Counting with Coins Skip Counting Count by 2s, 5s and 10s	Grade 1 Numbers Grade 2 Numbers
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1000	QC1.A.1.A.2a	Matches the gesture to the corresponding number word; recognizes the cardinal aspect of a number and the conservation of number in various combinations.	Counting by Twos Counting by Fives Counting by Tens	Grade 1 Numbers Grade 2 Numbers
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1000	QC1.A.1.A.2b	Counts from a given number.	Counting Backward Counting Forward Going Up Going Down	Grade 1 Numbers Grade 2 Numbers
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1000	QC1.A.1.A.2c	Counts a collection by grouping or regrouping.	Groups of Two Groups of Five Groups of Ten Groups of Three Groups of Four Groups of Six Groups of Seven Groups of Eight Groups of Nine Comparing Groups of Objects	Grade 1 Operations with Number Grade 2 Operations with Number
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1000	QC1.A.1.A.3	Reads and writes any natural number.	Place Value to Thousands Place Value 1 Place Value 2 Understanding Place Value 1 Place Value Partitioning Reading Numbers to 30	Grade 2 Numbers

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle One

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1000	QC1.A.1.A.4a	Emphasis on apparent, accessible groupings using objects, drawings or unstructured materials.	Groups of Two Groups of Five Groups of Ten Groups of Three Groups of Four Groups of Six Groups of Seven Groups of Eight Groups of Nine	Grade 1 Operations with Number Grade 2 Operations with Number
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1000	QC1.A.1.A.4b	Emphasis on exchanging apparent, non-accessible groupings, using structured materials.	Groups of Two Groups of Five Groups of Ten Groups of Three Groups of Four Groups of Six Groups of Seven Groups of Eight Groups of Nine	Grade 1 Operations with Number Grade 2 Operations with Number
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1000	QC1.A.1.A1	Composes and decomposes a natural number in a variety of ways.	Making Teen Numbers Model Numbers Making Big Numbers Count	Under review
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1000	QC1.A.1.A.6	Identifies equivalent expressions.	Balance Numbers to 10 Balance Numbers to 20	Grade 1 Operations with Number Grade 2 Operations with Number
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1000	QC1.A.1.A.7	Compares natural numbers.	More, less or the same to 20 Which Is Greater? Which Is Less? Arranging Numbers	Grade 1 Numbers Grade 2 Numbers
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1000	QC1.A.1.A.8	Arranges natural numbers in increasing or decreasing order.	Ascending Order Descending Order	Grade 1 Numbers Grade 2 Numbers
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1000	QC1.A.1.A.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).	Increasing Patterns Decreasing Patterns Describing Patterns Count Backward Patterns Count Forward Patterns	Grade 1 Patterns and Relationships Grade 2 Patterns and Relationships

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle One

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1000	QC1.A.1.A.10	Locates natural numbers using different visual aids.	Number Lines Number Line Order	Grade 1 Numbers Grade 2 Numbers
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1000	QC1.A.1.A.11a	Odd or even numbers.	Odd or Even Odd and Even Numbers 1	Under review
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1000	QC1.A.1.A.12	Classifies natural numbers in various ways, based on their properties (e.g. even numbers, composite numbers).	Odd and Even Numbers 1 Prime or Composite?	Under review
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1000	QC1.A.1.A.13	Approximates a collection, using objects or drawings (e.g. estimate, round up/down to a given value).	Nearest 10? Nearest 100?	Grade 1 Numbers Grade 2 Numbers
Arithmetic: Understanding and Writing Numbers	Fractions	QC1.A.1.B.1	Identifies fractions related to everyday items (using objects or drawings).	Under review	Grade 1 Numbers Grade 2 Numbers
Arithmetic: Understanding and Writing Numbers	Fractions	QC1.A.1.B.2	Represents a fraction in a variety of ways, based on a whole or a collection of objects.	Shape Fractions Model Fractions Halves Halves and Quarters Is it Half? Part-Whole Rods 1 Part-Whole Rods 2 Fractions of a Collection Fractions of a Collection 1 Fractions of a Collection 2	Grade 1 Numbers Grade 2 Numbers
Arithmetic: Meaning of operations involving numbers	Natural numbers less than 1000	QC1.A.2.A.1	Determines the operation(s) to perform in a given situation.	Add to 10 Word Problems Problems: Add and Subtract Add and Subtract Problems	Grade 1 Operations with Number Grade 2 Operations with Number
Arithmetic: Meaning of operations involving numbers	Natural numbers less than 1000	QC1.A.2.A.2a	Transformation (adding, taking away), uniting, comparing.	Bar Model Problems 1 Bar Model Problems 2	Grade 1 Operations with Number Grade 2 Operations with Number

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle One

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Meaning of operations involving numbers	Natural numbers less than 1000	QC1.A.2.A.3a	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 multiplication and division). Rectangular arrays, repeated addition, Cartesian product, sharing, and number of times x goes into y (using objects and diagrams).	Multiplication Arrays Related Facts 2	Grade 1 Operations with Number Grade 2 Operations with Number
Arithmetic: Meaning of operations involving numbers	Natural numbers less than 1000	QC1.A.2.A.4	Establishes equality relations between numerical expressions (e.g. $3 + 2 = 6 - 1$)	Balance Numbers to 10 Balance Numbers to 20 Related Facts 1 Balance Additions to 20	Grade 1 Operations with Number Grade 2 Operations with Number
Arithmetic: Meaning of operations involving numbers	Natural numbers less than 1000	QC1.A.2.A1a	Determines numerical equivalencies using relationships between operations (addition and subtraction) and the commutative property of addition.	Commutative Property of Addition Adding In Any Order	Grade 1 Operations with Number Grade 2 Operations with Number
Arithmetic: Operations Involving Numbers	Natural numbers less than 1000	QC1.A.3.A.1a	Approximates the result of an addition or subtraction involving natural numbers.	Nearest 10?	Grade 1 Operations with Number Grade 2 Operations with Number
Arithmetic: Operations Involving Numbers	Natural numbers less than 1000	QC1.A.3.A.2a	Builds a memory of addition facts ($0 + 0$ to $10 + 10$) and the corresponding subtraction facts, using objects, drawings, charts or tables.	Under review	Grade 1 Operations with Number Grade 2 Operations with Number
Arithmetic: Operations Involving Numbers	Natural numbers less than 1000	QC1.A.3.A.2b	Develops various strategies that promote mastery of number facts and relates them to the properties of addition.	Commutative Property of Addition Related Facts 1 Fact Families: Add and Subtract Addition Facts	Grade 1 Operations with Number Grade 2 Operations with Number

Quebec Curriculum

Alignment with Mathletics


Quebec Cycle One

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Operations Involving Numbers	Natural numbers less than 1000	QC1.A.3.A.2c	Masters all addition facts ($0 + 0$ to $10 + 10$) and the corresponding subtraction facts.	Fact Families: Add and Subtract Addition Adding to make 5 and 10 Additive Addition Subtraction Facts to 18 Adding to Ten Addition Facts	Grade 1 Operations with Number Grade 2 Operations with Number
Arithmetic: Operations Involving Numbers	Natural numbers less than 1000	QC1.A.3.A.3a	Uses his/her own processes to determine the sum or difference of two natural numbers.	Subtract Numbers Add Numbers: Regroup a Ten Adding to 2-Digit Numbers Mental Addition	Grade 1 Operations with Number Grade 2 Operations with Number
Arithmetic: Operations Involving Numbers	Natural numbers less than 1000	QC1.A.3.A.4a	Uses his/her own processes as well as objects and drawings to determine the sum or difference of two natural numbers less than 1000.	Jump Add and Subtract 1 More, 10 Less 1 More, 2 Less Strategies for Column Addition Doubles and Halves to 10 Doubles and Halves to 20 10 More, 10 Less Decompose Numbers to Subtract Bump Add and Subtract Compensation-Add Compensation-Subtract Complements to 10, 20, 50 Complements to 50 and 100	Grade 1 Operations with Number Grade 2 Operations with Number
Arithmetic: Operations Involving Numbers	Natural numbers less than 1000	QC1.A.3.A1	Determines the missing term in an equation (relationships between operations).	Word Problems with Letters	Grade 1 Patterns and Relationships Grade 2 Patterns and Relationships
Arithmetic: Operations Involving Numbers	Natural numbers less than 1000	QC1.A.3.A.13a	Non-numerical patterns (e.g. series of colours, shapes, sounds, gestures).	Describing Patterns Colour Patterns Complete the Patterns Simple Patterns	Grade 1 Patterns and Relationships Grade 2 Patterns and Relationships

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle One

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Operations Involving Numbers	Natural numbers less than 1000	QC1.A.3.A.13b	Numerical patterns (e.g. number rhymes, tables and charts).	Increasing Patterns Decreasing Patterns	Grade 1 Patterns and Relationships Grade 2 Patterns and Relationships
Arithmetic: Operations Involving Numbers	Natural numbers less than 1000	QC1.A.3.A.13c	Series of numbers and family of operations.	Increasing Patterns Decreasing Patterns	Grade 1 Patterns and Relationships Grade 2 Patterns and Relationships
Arithmetic: Operations Involving Numbers	Natural numbers less than 1000	QC1.A.3.A.14	Adds new terms to a series when the first three terms or more are given.	Increasing Patterns Decreasing Patterns	Grade 1 Patterns and Relationships Grade 2 Patterns and Relationships
Arithmetic: Operations Involving Numbers	Natural numbers less than 1000	QC1.A.3.A.15a	Uses a calculator and becomes familiar with its basic functions (+, -, =, 0 to 9 number keys, all clear, clear).	Increasing Patterns Decreasing Patterns	Grade 1 Patterns and Relationships Grade 2 Patterns and Relationships
Geometry	Space	QC1.G.A.1	Gets his/her bearings and locates objects in space (spatial relationships).	Map Coordinates Left or Right? Where is it?	Grade 1 Space and Shape
Geometry	Space	QC1.G.A.2	Locates objects in a plane.	Map Coordinates	Grade 1 Space and Shape
Geometry	Space	QC1.G.A.3	Locates objects on an axis (based on the types of numbers studied).	Coordinate Graphs: 1st Quadrant Number Plane	Grade 5 Position
Geometry	Space	QC1.G.A.4a	Locates points in a Cartesian plane in the first quadrant.	Coordinate Graphs: 1st Quadrant	Grade 5 Position
Geometry	Solids	QC1.G.B.1	Compares objects or parts of objects in the environment with solids (e.g. spheres, cones, cubes, cylinders, prisms, pyramids).	Collect the Objects Collect the Objects 1 Collect the Objects 2 Match the Object Right and Oblique Objects	Grade 1 Space and Shape Grade 2 Space and Shape
Geometry	Solids	QC1.G.B.2	Compares and constructs solids (e.g. spheres, cones, cubes, cylinders, prisms, pyramids).	Collect the Objects 1 Collect the Objects 2 Match the Object Right and Oblique Objects	Grade 1 Space and Shape Grade 2 Space and Shape

Quebec Curriculum

Alignment with Mathletics

Quebec Cycle One

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Geometry	Solids	QC1.G.B.3	Identifies the main solids (e.g. spheres, cones, cubes, cylinders, prisms, pyramids).	Collect the Objects 1 Collect the Objects 2 Match the Object Right and Oblique Objects	Grade 1 Space and Shape Grade 2 Space and Shape
Geometry	Solids	QC1.G.B.4	Identifies and represents the different faces of a prism or pyramid.	Prisms and Pyramids How many Faces? Faces, Edges and Vertices What Prism am I?	Grade 1 Space and Shape Grade 2 Space and Shape
Geometry	Solids	QC1.G.B.8a	Matches the net of a prism to the corresponding prism and vice versa.	Nets	Grade 1 Space and Shape Grade 2 Space and Shape
Geometry	Solids	QC1.G.B.8b	Matches the net of a pyramid to the corresponding pyramid and vice versa.	Nets	Grade 1 Space and Shape Grade 2 Space and Shape
Geometry	Plane figures	QC1.G.C.1	Compares and constructs figures made with closed curved lines or closed straight lines.	Collect the Shapes 1 Collect the Shapes 2 Shapes	Grade 1 Space and Shape Grade 2 Space and Shape
Geometry	Plane figures	QC1.G.C.2	Identifies plane figures (square, rectangle, triangle, rhombus and circle).	Collect the Shapes 1 Collect the Shapes 2 Collect More Shapes Shapes Collect Simple Shape	Grade 1 Space and Shape Grade 2 Space and Shape
Geometry	Plane figures	QC1.G.C.3	Describes plane figures (square, rectangle, triangle and rhombus).	Collect the Shapes 1 Collect the Shapes 2 Collect More Shapes Shapes Count Sides and Corners	Grade 1 Space and Shape Grade 2 Space and Shape
Geometry	Frieze patterns and tessellations	QC1.G.D.1	Identifies congruent figures.	Congruent Figures (Grid) Congruent Figures (Dots)	Grade 1 Space and Shape Grade 2 Space and Shape
Geometry	Frieze patterns and tessellations	QC1.G.D.2	Observes and produces patterns using geometric figures.	Complete the Pattern	Grade 1 Patterns and Relationships Grade 2 Patterns and Relationships
Measurement	Lengths	QC1.M.A.1	Compares lengths	Comparing Length Measuring Length Measuring Length with Blocks	Grade 1 Measurement Grade 2 Measurement

Quebec Curriculum

Alignment with Mathletics

Quebec Cycle One

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Measurement	Lengths	QC1.M.A.2	Constructs rulers	Comparing Length Measuring Length	Grade 1 Measurement Grade 2 Measurement
Measurement	Lengths	QC1.M.A.3	Estimates and measures the dimensions of an object using unconventional units.	Comparing Length Measuring Length	Grade 1 Measurement Grade 2 Measurement
Measurement	Lengths	QC1.M.A.4a	Metre, decimetre and centimetre.	Centimetres and Metres Converting Units of Length	Grade 1 Measurement Grade 2 Measurement
Measurement	Time	QC1.M.G.1	Estimates and measures time using conventional units.	Hour Times Half Hour Times Tell Time to the Half Hour Five Minute Times What Time Will it Be? What is the Time? Time Mentals Elapsed Time	Grade 1 Time and Money Grade 2 Time and Money
Measurement	Time	QC1.M.G.2	Establishes relationships between units of measure.	Hour Times Half Hour Times Five Minute Times Time Mentals Elapsed Time	Grade 1 Time and Money Grade 2 Time and Money
Measurement	Temperatures	QC1.M.H.1	Estimates and measures temperature using conventional units.	Temperature Hot or Cold?	Under review
Statistics	Statistics	QC1.S.1	Formulates questions for a survey (based on age-appropriate topics, students' language level, etc.).	Under review	Under review
Statistics	Statistics	QC1.S.2	Collects, describes and organizes data (classifies or categorizes) using tables.	Sorting Data 1	Grade 1 Chance and Data Grade 2 Chance and Data
Statistics	Statistics	QC1.S.3a	A table, a bar graph and a pictograph.	Bar Graphs 1 Bar Chart Bar Graphs 2 Reading from a Bar Chart Pictographs	Grade 1 Chance and Data Grade 2 Chance and Data

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle One

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Statistics	Statistics	QC1.S.4a	Displays data using a table, a bar graph and a pictograph.	Bar Chart Bar Graphs 1 Bar Graphs 2 Reading from a Bar Chart Pictographs	Grade 1 Chance and Data Grade 2 Chance and Data
Probability	Probability	QC1.P1	When applicable, recognizes variability in possible outcomes (uncertainty).	What are the Chances? Will it Happen? Possible Outcomes Most Likely and Least Likely	Grade 1 Chance and Data Grade 2 Chance and Data
Probability	Probability	QC1.P2	When applicable, recognizes equiprobability (e.g. quantity, symmetry of an object [cube]).	Possible Outcomes	Grade 1 Chance and Data Grade 2 Chance and Data
Probability	Probability	QC1.P3	When applicable, becomes aware of the independence of events in an experiment.	Under review	Grade 1 Chance and Data Grade 2 Chance and Data
Probability	Probability	QC1.P4	Experiments with activities involving chance, using various objects (e.g. spinners, rectangular prisms, glasses, marbles, thumb tacks, 6-, 8- or 12-sided dice).	Under review	Grade 1 Chance and Data Grade 2 Chance and Data
Probability	Probability	QC1.P1a	Certain, possible or impossible outcome.	Will it Happen? What are the Chances? Most Likely and Least Likely	Grade 1 Chance and Data Grade 2 Chance and Data
Probability	Probability	QC1.P6	Distinguishes between prediction and outcome.	Will it Happen?	Grade 1 Chance and Data Grade 2 Chance and Data
Probability	Probability	QC1.P7	Uses tables or diagrams to collect and display the outcomes of an experiment.	Pictographs	Grade 1 Chance and Data Grade 2 Chance and Data
Probability	Probability	QC1.P8a	Enumerates possible outcomes of a simple random experiment.	Possible Outcomes	Grade 1 Chance and Data Grade 2 Chance and Data

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Two

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 100 000	QC2.A.1.A.1a	Counts forward from a given number.	Counting Backward Counting Forward Going Up Going Down	Grade 3 Patterns and Relationships Grade 4 Patterns and Algebra
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 100 000	QC2.A.1.A.1b	Counts forward or backward.	Counting Backward Counting Forward Going Up Going Down	Grade 3 Patterns and Relationships Grade 4 Patterns and Algebra
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 100 000	QC2.A.1.A.1c	Skip counts (e.g. by twos).	Skip Counting Skip Counting with Coins	Grade 3 Patterns and Relationships Grade 4 Patterns and Algebra
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 100 000	QC2.A.1.A.2a	Matches the gesture to the corresponding number word; recognizes the cardinal aspect of a number and the conservation of number in various combinations.	Counting by Twos Counting by Fives Counting by Tens Count by 2s, 5s and 10s 1st to 31st Ordinal Numbers	Grade 3 Patterns and Relationships Grade 4 Patterns and Algebra
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 100 000	QC2.A.1.A.2b	Counts from a given number.	Counting Backward Counting Forward Going Up Going Down	Grade 3 Patterns and Relationships Grade 4 Patterns and Algebra
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 100 000	QC2.A.1.A.2c	Counts a collection by grouping or regrouping.	Groups of Two Groups of Five Groups of Ten Groups of Three Groups of Four Groups of Six Groups of Seven Groups of Eight Groups of Nine	Grade 3 Multiplication and Division Grade 4 Multiplication and Division

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Two

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 100 000	QC2.A.1.A.2d	Counts a pre-grouped collection.	Groups of Two Groups of Five Groups of Ten Groups of Three Groups of Four Groups of Six Groups of Seven Groups of Eight Groups of Nine	Grade 3 Multiplication and Division Grade 4 Multiplication and Division
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 100 000	QC2.A.1.A.3	Reads and writes any natural number.	Reading Numbers to 30	Grade 3 Reading and Understanding Whole Numbers Grade 4 Reading and Understanding Whole Numbers
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 100 000	QC2.A.1.A.4b	Emphasis on exchanging apparent, non-accessible groupings, using structured materials.	Groups of Two Groups of Five Groups of Ten Groups of Three Groups of Four Groups of Six Groups of Seven Groups of Eight Groups of Nine	Grade 3 Multiplication and Division Grade 4 Multiplication and Division
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 100 000	QC2.A.1.A.4c	Emphasis on place value in non-apparent, non-accessible groupings, using materials for which groupings are symbolic.	Place Value 1 Place Value 2 Place Value 3 Place Value to Thousands Understanding Place Value 1 Understanding Place Value 2 Understanding Place Value 3 Place Value Partitioning	Grade 3 Reading and Understanding Whole Numbers Grade 4 Reading and Understanding Whole Numbers
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 100 000	QC2.A.1.A2	Composes and decomposes a natural number in a variety of ways.	Expanded Notation Expanding Numbers	Grade 3 Reading and Understanding Whole Numbers Grade 4 Reading and Understanding Whole Numbers

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Two

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 100 000	QC2.A.1.A.7	Compares natural numbers	Which Is Greater? Which Is Less? Greater Than or Less Than?	Grade 3 Reading and Understanding Whole Numbers Grade 4 Reading and Understanding Whole Numbers
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 100 000	QC2.A.1.A.8	Arranges natural numbers in increasing or decreasing order.	Ascending Order Descending Order	Grade 3 Reading and Understanding Whole Numbers Grade 4 Reading and Understanding Whole Numbers
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 100 000	QC2.A.1.A.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).	Increasing Patterns Decreasing Patterns Odd or Even Odd and Even Numbers 1 Prime or Composite	Grade 3 Reading and Understanding Whole Numbers Grade 4 Reading and Understanding Whole Numbers
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 100 000	QC2.A.1.A.10	Locates natural numbers using different visual aids.	Number Lines Number Line Order	Grade 3 Reading and Understanding Whole Numbers Grade 4 Reading and Understanding Whole Numbers
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 100 000	QC2.A.1.A.11a	Odd or even numbers.	Odd or Even Odd and Even Numbers 1	Grade 3 Reading and Understanding Whole Numbers Grade 4 Reading and Understanding Whole Numbers
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 100 000	QC2.A.1.A.11b	Square, prime or composite numbers.	Prime or Composite?	Grade 3 Reading and Understanding Whole Numbers Grade 4 Reading and Understanding Whole Numbers

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Two

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 100 000	QC2.A.1.A.12	Classifies natural numbers in various ways, based on their properties (e.g. even numbers, composite numbers).	Odd or Even Odd and Even Numbers 1 Prime or Composite?	Grade 3 Reading and Understanding Whole Numbers Grade 4 Reading and Understanding Whole Numbers
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 100 000	QC2.A.1.A.13	Approximates a collection, using objects or drawings (e.g. estimate, round up/down to a given value).	Nearest 100? Nearest 1000?	Grade 3 Reading and Understanding Whole Numbers Grade 4 Reading and Understanding Whole Numbers
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 100 000	QC2.A.1.A.14	Represents the power of a natural number.	Multiplying by 10, 100, 1000	Under review
Arithmetic: Understanding and Writing Numbers	Fractions	QC2.A.1.B.2	Represents a fraction in a variety of ways, based on a whole or a collection of objects.	Model Fractions Part-Whole Rods 1 Part-Whole Rods 2 Fractions of a Collection Fraction Wall Labelling 1 Fraction Wall Labelling 2 Identifying Fractions on a Number Line Counting with Fractions on a Number Line	Grade 3 Fractions Grade 4 Fractions
Arithmetic: Understanding and Writing Numbers	Fractions	QC2.A.1.B.3	Matches a fraction to part of a whole (congruent or equivalent parts) or part of a group of objects, and vice versa.	Fraction Fruit Sets 1 Part-Whole Rods 1 Part-Whole Rods 2	Grade 3 Fractions Grade 4 Fractions
Arithmetic: Understanding and Writing Numbers	Fractions	QC2.A.1.B.4	Identifies the different meanings of fractions (sharing, division, ratio).	Partition into Equal Parts	Grade 3 Fractions Grade 4 Fractions
Arithmetic: Understanding and Writing Numbers	Fractions	QC2.A.1.B2	Distinguishes a numerator from a denominator.	Partition into Equal Parts	Grade 3 Fractions Grade 4 Fractions

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Two

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Understanding and Writing Numbers	Fractions	QC2.A.1.B.6	Reads and writes a fraction.	What Fraction is Shaded? Shape Fractions	Grade 3 Fractions Grade 4 Fractions
Arithmetic: Understanding and Writing Numbers	Fractions	QC2.A.1.B.7	Compares a fraction to 0, $\frac{1}{2}$ or 1.	Fractions of a Collection 1 Fraction Wall Labelling 1 Fraction Wall Labelling 2	Grade 3 Fractions Grade 4 Fractions
Arithmetic: Understanding and Writing Numbers	Fractions	QC2.A.1.B.8	Verifies whether two fractions are equivalent.	Equivalent Fraction Wall 1 Equivalent Fraction Wall 2 Equivalent Fractions Equivalent Fractions 1 Equivalent Fractions on a Number Line 1 Equivalent Fractions on a Number Line 2 Shading Equivalent Fractions	Grade 3 Fractions Grade 4 Fractions
Arithmetic: Understanding and Writing Numbers	Fractions	QC2.A.1.B.9	Matches a decimal or percentage to a fraction.	Match Decimals and Percentages Fractions to Decimals Percentage to Fraction Fractions to Decimals 2	Grade 3 Fractions Grade 4 Fractions
Arithmetic: Understanding and Writing Numbers	Fractions	QC2.A.1.B.10	Orders fractions with the same denominator.	Ordering Fractions Compare Fractions 1a Compare Fractions 1b	Grade 3 Fractions Grade 4 Fractions
Arithmetic: Understanding and Writing Numbers	Decimals up to thousandths	QC2.A.1.C.1	Represents decimals in a variety of ways (using objects or drawings).	Decimals on a Number Line Decimals on the Number Line	Grade 7 Decimals
Arithmetic: Understanding and Writing Numbers	Decimals up to thousandths	QC2.A.1.C.2	Identifies equivalent representations (using objects or drawings).	Under review	Grade 7 Decimals
Arithmetic: Understanding and Writing Numbers	Decimals up to thousandths	QC2.A.1.C.3	Reads and writes numbers written in decimal notation.	Rounding Decimals 1 Decimals from Words to Digits 1	Grade 7 Decimals
Arithmetic: Understanding and Writing Numbers	Decimals up to thousandths	QC2.A.1.C.4	Understands the role of the decimal point.	Rounding Decimals 1 Decimals from Words to Digits 1	Grade 7 Decimals
Arithmetic: Understanding and Writing Numbers	Decimals up to thousandths	QC2.A.1.C2	Composes and decomposes a decimal written in decimal notation.	Nearest Whole Number	Grade 7 Decimals

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Two

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Understanding and Writing Numbers	Decimals up to thousandths	QC2.A.1.C.7a	Locates decimals on a number line between two consecutive natural numbers.	Decimals on the Number Line Decimals on a Number Line	Grade 7 Decimals
Arithmetic: Understanding and Writing Numbers	Decimals up to thousandths	QC2.A.1.C.7b	Locates decimals on a number line between two decimals.	Decimals on the Number Line Decimals on a Number Line	Grade 7 Decimals
Arithmetic: Understanding and Writing Numbers	Decimals up to thousandths	QC2.A.1.C.8	Compares two decimals.	Comparing Decimals Comparing Decimals 1	Grade 7 Decimals
Arithmetic: Understanding and Writing Numbers	Decimals up to thousandths	QC2.A.1.C.9	Approximates (e.g. estimates, rounds to a given value, truncates decimal places).	Nearest Whole Number Rounding Decimals 1	Grade 7 Decimals
Arithmetic: Understanding and Writing Numbers	Decimals up to thousandths	QC2.A.1.C.10	Arranges decimals in increasing or decreasing order.	Decimal Order 1 Decimal Order 2 Decimal Place Value Comparing Decimals Comparing Decimals 2	Grade 7 Decimals
Arithmetic: Understanding and Writing Numbers	Decimals up to thousandths	QC2.A.1.C.11a	Matches a fraction to its decimal.	Decimals to Fractions 1 Decimals to Fractions 2	Grade 4 Fractions Grade 7 Decimals
Arithmetic: Understanding and Writing Numbers	Integers	QC2.A.1.D.1	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).	Integers on a Number Line Comparing Integers Ordering Integers Directed Numbers	Grade 7 Integers
Arithmetic: Meaning of operations involving numbers	Natural numbers less than 100 000	QC2.A.2.A.1	Determines the operation(s) to perform in a given situation.	Problems: Add and Subtract 1 Problems: Multiply and Divide 1	Grade 3 Addition and Subtraction Grade 4 Addition and Subtraction
Arithmetic: Meaning of operations involving numbers	Natural numbers less than 100 000	QC2.A.2.A.2a	Transformation (adding, taking away), uniting, comparing.	Mental Addition Magic Mental Subtraction	Grade 3 Addition and Subtraction Grade 4 Addition and Subtraction

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Two

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Meaning of operations involving numbers	Natural numbers less than 100 000	QC2.A.2.A.2b	Composition of transformations: positive, negative.	Mental Addition Magic Mental Subtraction	Grade 3 Addition and Subtraction Grade 4 Addition and Subtraction
Arithmetic: Meaning of operations involving numbers	Natural numbers less than 100 000	QC2.A.2.A.3b	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 multiplication and division). 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).	Multiplication Arrays Related Facts 2 Divisibility Tests (2, 5, 10)	Grade 3 Multiplication and division Grade 4 Multiplication and Division
Arithmetic: Meaning of operations involving numbers	Natural numbers less than 100 000	QC2.A.2.A.4	Establishes equality relations between numerical expressions (e.g. $3 + 2 = 6 - 1$).	Multiplication Arrays	Grade 3 Multiplication and division Grade 4 Multiplication and Division
Arithmetic: Meaning of operations involving numbers	Natural numbers less than 100 000	QC2.A.2.A.2b	Determines numerical equivalencies using relationships between operations (the four operations), the commutative property of addition and multiplication and the associative property.	Addition Properties Commutative Property of Addition Adding In Any Order	Grade 3 Addition and Subtraction Grade 4 Addition and Subtraction
Arithmetic: Meaning of operations involving numbers	Natural numbers less than 100 000	QC2.A.2.A.6	Translates a situation using a series of operations in accordance with the order of operations.	Order of Operations 1 (BEDMAS)	Under review
Arithmetic: Meaning of operations involving numbers	Decimals up to thousandths	QC2.A.2.B.1a	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) transformation (adding, taking away), uniting, comparing.	Problems: Add and Subtract	Grade 4 Addition and Subtraction

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Two

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Meaning of operations involving numbers	Decimals up to thousandths	QC2.A.2.B.1b	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) composition of transformations: positive, negative.	Problems: Add and Subtract 1	Grade 4 Addition and Subtraction
Arithmetic: Meaning of operations involving numbers	Decimals up to thousandths	QC2.A.2.B.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 multiplication and division: rectangular arrays, Cartesian product, area, volume, sharing, number of times x goes into y, and comparisons).	Problems Multiply and Divide 1	Grade 4 Multiplication and Division
Arithmetic: Meaning of operations involving numbers	Decimals up to thousandths	QC2.A.2.B.3a	Determines numerical equivalencies using the relationship between operations (addition and subtraction), the commutative property of addition and the associative property.	Commutative Property of Addition Related Facts 1 Fact Families: Add and Subtract Addition Properties	Grade 4 Addition and Subtraction
Arithmetic: Operations Involving Numbers	Natural numbers less than 100 000	QC2.A.3.A.1a	Approximates the result of an addition or subtraction involving natural numbers.	Estimate Sums Estimate Differences Estimation: Add and Subtract	Grade 3 Addition and Subtraction Grade 4 Addition and Subtraction
Arithmetic: Operations Involving Numbers	Natural numbers less than 100 000	QC2.A.3.A.1b	Approximates the result of any of the four operations involving natural numbers.	Estimation: Add and Subtract Estimate Sums Estimation: Multiply and Divide Estimate Products Estimate Differences Estimate Quotients	Grade 3 Addition and Subtraction Grade 4 Addition and Subtraction

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Two

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Operations Involving Numbers	Natural numbers less than 100 000	QC2.A.3.A.2a	Builds a memory of addition facts ($0 + 0$ to $10 + 10$) and the corresponding subtraction facts, using objects, drawings, charts or tables.	Fact Families: Add and Subtract Mental Addition Magic Mental Subtraction	Grade 3 Addition and Subtraction Grade 4 Addition and Subtraction
Arithmetic: Operations Involving Numbers	Natural numbers less than 100 000	QC2.A.3.A.2b	Develops various strategies that promote mastery of number facts and relates them to the properties of addition.	Addition Properties Fact Families: Addition and Subtraction	Grade 3 Addition and Subtraction Grade 4 Addition and Subtraction
Arithmetic: Operations Involving Numbers	Natural numbers less than 100 000	QC2.A.3.A.2c	Masters all addition facts ($0 + 0$ to $10 + 10$) and the corresponding subtraction facts.	Fact Families: Add and Subtract Mental Addition Magic Mental Subtraction	Grade 3 Addition and Subtraction Grade 4 Addition and Subtraction
Arithmetic: Operations Involving Numbers	Natural numbers less than 100 000	QC2.A.3.A.3a	Uses his/her own processes to determine the sum or difference of two natural numbers.	Fact Families: Add and Subtract Mental Addition Magic Mental Subtraction	Grade 3 Addition and Subtraction Grade 4 Addition and Subtraction
Arithmetic: Operations Involving Numbers	Natural numbers less than 100 000	QC2.A.3.A.3b	Uses his/her own processes to determine the product or quotient of two natural numbers.	Mental Methods Division Mental Methods Division 1 Mental Methods Multiplication 1 Mental Methods Multiplication 2 Mental Methods Multiplication 3	Grade 3 Multiplication and division Grade 4 Multiplication and Division
Arithmetic: Operations Involving Numbers	Natural numbers less than 100 000	QC2.A.3.A.4b	Uses conventional processes to determine the sum of two natural numbers of up to four digits.	Add 3-Digit Numbers Add 3-Digit Numbers: Regroup Add Multi-Digit Numbers 1 Add Multi-Digit Numbers 2 Add Two 2-Digit Numbers Add Two 2-Digit Numbers: Regroup Adding Colossal Columns	Grade 3 Addition and Subtraction Grade 4 Addition and Subtraction

Quebec Curriculum

Alignment with Mathletics

Quebec Cycle Two

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Operations Involving Numbers	Natural numbers less than 100 000	QC2.A.3.A.4c	Uses conventional processes to determine the difference between two natural numbers of up to four digits whose result is greater than 0.	Subtracting Colossal Columns Columns that Subtract Compensation - Subtract Bump Add and Subtract Decompose Numbers to Subtract Jump Add and Subtract Magic Mental Subtraction Column Subtraction	Grade 3 Addition and Subtraction Grade 4 Addition and Subtraction
Arithmetic: Operations Involving Numbers	Natural numbers less than 100 000	QC2.A.3.A.2	Determines the missing term in an equation (relationships between operations).	Related Facts 1	Grade 3 Patterns and Relationships Grade 4 Patterns and Algebra
Arithmetic: Operations Involving Numbers	Natural numbers less than 100 000	QC2.A.3.A.6a	Builds a memory of multiplication facts (0×0 to 10×10) and the corresponding division facts, using objects, drawings, charts or tables.	Division Facts Fact Families: Multiply and Divide Multiplication Facts	Grade 3 Multiplication and division Grade 4 Multiplication and Division
Arithmetic: Operations Involving Numbers	Natural numbers less than 100 000	QC2.A.3.A.6b	Develops various strategies that promote mastery of number facts and relate them to the properties of multiplication.	Related Facts 2 Multiplication Arrays Multiplication Facts Fact Families: Multiply and Divide Mental Methods Multiplication 1 Mental Methods Multiplication 2 Mental Methods Multiplication 3	Grade 3 Addition and Subtraction Multiplication and division Grade 4 Addition and Subtraction Multiplication and Division
Arithmetic: Operations Involving Numbers	Natural numbers less than 100 000	QC2.A.3.A.6c	Masters all multiplication facts (0×0 to 10×10) and the corresponding division facts.	Multiplication Facts Division Facts	Grade 3 Multiplication and division Grade 4 Multiplication and Division

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Two

Strand	Substrand	Outcome	Outcome Description	Activities	eBooks
Arithmetic: Operations Involving Numbers	Natural numbers less than 100 000	QC2.A.3.A.7a	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.	Multiply: 1-Digit Number Multiply: 1-Digit Number, Regroup Divide: 1-Digit Divisor 1 Divide: 1-Digit Divisor 2 Divide: 1-Digit Divisor, Remainder Remainders by Tables Fact Families: Multiply and Divide	Grade 3 Multiplication and division Grade 4 Multiplication and Division
Arithmetic: Operations Involving Numbers	Natural numbers less than 100 000	QC2.A.3.A.8	Determines the missing term in an equation (relationships between operations).	Problems: Add and Subtract Problems: Multiply and Divide 1 Find the Missing Number 1 Find the Missing Number 2 Missing Numbers: Variables Word Problems with Letters	Grade 3 Patterns and Relationships Grade 4 Patterns and Algebra
Arithmetic: Operations Involving Numbers	Natural numbers less than 100 000	QC2.A.3.A.9	Decomposes a number into prime factors.	Product of Prime Factors	Under review
Arithmetic: Operations Involving Numbers	Natural numbers less than 100 000	QC2.A.3.A.13a	Non-numerical patterns (e.g. series of colours, shapes, sounds, gestures).	Describing Patterns Colour Patterns	Grade 3 Patterns and Relationships Grade 4 Patterns and Algebra
Arithmetic: Operations Involving Numbers	Natural numbers less than 100 000	QC2.A.3.A.13b	Numerical patterns (e.g. number rhymes, tables and charts).	Increasing Patterns Decreasing Patterns	Grade 3 Patterns and Relationships Grade 4 Patterns and Algebra
Arithmetic: Operations Involving Numbers	Natural numbers less than 100 000	QC2.A.3.A.13c	Describes a series of numbers and family of operations.	Increasing Patterns Decreasing Patterns Describing Patterns	Grade 3 Patterns and Relationships Grade 4 Patterns and Algebra

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Two

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Operations Involving Numbers	Natural numbers less than 100 000	QC2.A.3.A.14	Adds new terms to a series when the first three terms or more are given.	Pick the Next Number	Grade 3 Patterns and Relationships Grade 4 Patterns and Algebra
Arithmetic: Operations Involving Numbers	Natural numbers less than 100 000	QC2.A.3.A.15a	Uses a calculator and becomes familiar with its basic functions (+, -, =, 0 to 9 number keys, all clear, clear).	Under review	Under review
Arithmetic: Operations Involving Numbers	Natural numbers less than 100 000	QC2.A.3.A.15b	Uses a calculator and becomes familiar with its \times and \div functions.	Under review	Under review
Arithmetic: Operations Involving Numbers	Fractions	QC2.A.3.B.1	Generates a set of equivalent fractions.	Shading Equivalent Fractions Shading Equivalent Fractions 1 Equivalent Fractions	Grade 3 Fractions Grade 4 Fractions
Arithmetic: Operations Involving Numbers	Decimals	QC2.A.3.C.1a	Approximates the result of an addition or a subtraction.	Estimate Decimal Differences 1 Estimate Decimal Sums 1 Estimate Decimal Differences 2 Estimate Decimal Sums 2	Grade 7 Decimals
Arithmetic: Operations Involving Numbers	Decimals	QC2.A.3.C.2a	Develops processes for mental computation adds and subtracts decimals.	Add Decimals: Same Sign Add Decimals 1 Subtract Decimals 1 Adding Decimals Add Decimals 2 Subtracting Decimals Subtract Decimals 2 Adding and Subtracting Decimals	Grade 7 Decimals
Arithmetic: Operations Involving Numbers	Decimals	QC2.A.3.C.3a	Develops processes for written computation adds and subtracts decimals whose result does not go beyond the second decimal place.	Add Decimals: Same Sign Add Decimals 1 Subtract Decimals 1 Adding Decimals Add Decimals 2 Subtracting Decimals Subtract Decimals 2 Adding and Subtracting Decimals	Grade 7 Decimals

Quebec Curriculum

Alignment with Mathletics


Quebec Cycle Two

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Geometry	Space	QC2.G.A.2	Locates objects in a plane.	Map Coordinates	Grade 3 Shape, Space and Position Grade 4 Shape, Space and Position
Geometry	Space	QC2.G.A.3	Locates objects on an axis (based on the types of numbers studied).	Coordinate Graphs: 1st Quadrant Number Plane	Grade 3 Shape, Space and Position Grade 4 Shape, Space and Position
Geometry	Space	QC2.G.A.4a	Locates points in a Cartesian plane in the first quadrant.	Coordinate Graphs: 1st Quadrant	Grade 3 Shape, Space and Position Grade 4 Shape, Space and Position
Geometry	Solids	QC2.G.B.1	Compares objects or parts of objects in the environment with solids (e.g. spheres, cones, cubes, cylinders, prisms, pyramids).	Collect the Objects 1 Collect the Objects 2 Match the Object Right and Oblique Objects	Grade 3 Shape, Space and Position Grade 4 Shape, Space and Position
Geometry	Solids	QC2.G.B.3	Identifies the main solids (e.g. spheres, cones, cubes, cylinders, prisms, pyramids).	Collect the Objects 1 Collect the Objects 2 Match the Object Right and Oblique Objects	Grade 3 Shape, Space and Position Grade 4 Shape, Space and Position
Geometry	Solids	QC2.G.B.4	Identifies and represents the different faces of a prism or pyramid.	How many Faces? Faces, Edges and Vertices	Grade 3 Shape, Space and Position Grade 4 Shape, Space and Position
Geometry	Solids	QC2.G.B.2	Describes prisms and pyramids in terms of faces, vertices and edges.	How many Faces? Faces, Edges and Vertices	Grade 3 Shape, Space and Position Grade 4 Shape, Space and Position

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Two

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Geometry	Solids	QC2.G.B.6	Classifies prisms and pyramids.	Collect the Objects 1 Collect the Objects 2 Match the Object Right and Oblique Objects	Grade 3 Shape, Space and Position Grade 4 Shape, Space and Position
Geometry	Solids	QC2.G.B.7	Constructs a net of a prism or pyramid.	Nets	Grade 3 Shape, Space and Position Grade 4 Shape, Space and Position
Geometry	Solids	QC2.G.B.8a	Matches the net of a prism to the corresponding prism and vice versa.	Nets	Grade 3 Shape, Space and Position Grade 4 Shape, Space and Position
Geometry	Solids	QC2.G.B.8b	Matches the net of a pyramid to the corresponding pyramid and vice versa.	Nets	Grade 3 Shape, Space and Position Grade 4 Shape, Space and Position
Geometry	Plane figures	QC2.G.C.2	Identifies plane figures (square, rectangle, triangle, rhombus and circle).	Collect the Shapes 1 Collect the Shapes 2 Collect More Shapes Shapes	Grade 3 Shape, Space and Position Grade 4 Shape, Space and Position
Geometry	Plane figures	QC2.G.C.3	Describes plane figures (square, rectangle, triangle and rhombus).	Collect the Shapes 1 Collect the Shapes 2 Collect More Shapes Shapes Count Sides and Corners	Grade 3 Shape, Space and Position Grade 4 Shape, Space and Position
Geometry	Plane figures	QC2.G.C.4	Describes convex and nonconvex polygons.	Collect the Shapes 1 Collect the Shapes 2 Collect More Shapes Shapes Count Sides and Corners	Grade 3 Shape, Space and Position Grade 4 Shape, Space and Position
Geometry	Plane figures	QC2.G.C.2	Identifies and constructs parallel lines and perpendicular lines.	Collect the Shapes 1 Collect the Shapes 2 Collect More Shapes Shapes Count Sides and Corners	Grade 3 Shape, Space and Position Grade 4 Shape, Space and Position
Geometry	Plane figures	QC2.G.C.6	Describes quadrilaterals (e.g. parallel segments, perpendicular segments, right angles, acute angles, obtuse angles).	Collect the Shapes 1 Collect the Shapes 2 Collect More Shapes Shapes Count Sides and Corners	Grade 3 Shape, Space and Position Grade 4 Shape, Space and Position

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Two

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Geometry	Plane figures	QC2.G.C.7	Classifies quadrilaterals	Collect the Shapes 1 Collect the Shapes 2 Collect More Shapes Shapes	Grade 3 Shape, Space and Position Grade 4 Shape, Space and Position
Geometry	Frieze patterns and tessellations	QC2.G.D.1	Identifies congruent figures.	Congruent Figures (Grid) Congruent Figures (Dots)	Under review
Geometry	Frieze patterns and tessellations	QC2.G.D.2	Observes and produces patterns using geometric figures.	Under review	Under review
Geometry	Frieze patterns and tessellations	QC2.G.D.3a	Observes and produces frieze patterns and tessellations using reflections.	Under review	Under review
Measurement	Lengths	QC2.M.A.4b	Estimate and measure dimensions of an object using metre, decimetre, centimetre and millimetre.	Measuring Length	Grade 3 Length, Area and Perimeter Grade 4 Length, Area and Perimeter
Measurement	Lengths	QC2.M.A.2a	Establishes relationships between units of measure for length - metre, decimetre, centimetre and millimetre.	Converting Units of Length Centimetres and Metres Metres and Kilometres	Grade 3 Length, Area and Perimeter Grade 4 Length, Area and Perimeter
Measurement	Lengths	QC2.M.A.6	Calculates the perimeter of plane figures.	Perimeter of Shapes Perimeter Perimeter: Squares and Rectangles Perimeter: Triangles 2 Perimeter Detectives 1	Grade 3 Length, Area and Perimeter Grade 4 Length, Area and Perimeter
Measurement	Surface Areas	QC2.M.B.1a	Estimates and measures surface area using unconventional units.	Under review	Under review
Measurement	Volumes	QC2.M.C.1a	Estimates and measures volume using unconventional units.	Under review	Under review
Measurement	Angles	QC2.M.D.1	Compares angles	Equal Angles Comparing Angles	Grade 5 Geometry
Measurement	Capacities	QC2.M.E.1	Estimates and measures capacity using unconventional units.	Under review	Under review

Quebec Curriculum

Alignment with Mathletics

Quebec Cycle Two

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Measurement	Capacities	QC2.M.E.2	Estimates and measures capacity using conventional units.	How Full?	Grade 3 Volume, Capacity and Mass Grade 4 Volume, Capacity and Mass
Measurement	Masses	QC2.M.F.1	Estimates and measures mass using unconventional units.	Under review	Grade 3 Volume, Capacity and Mass Grade 4 Volume, Capacity and Mass
Measurement	Masses	QC2.M.F.2	Estimates and measures mass using conventional units.	Everyday Mass	Grade 3 Volume, Capacity and Mass Grade 4 Volume, Capacity and Mass
Measurement	Time	QC2.M.G.1	Estimates and measures time using conventional units.	Time Mentals Elapsed Time	Grade 3 Time Grade 4 Time
Measurement	Time	QC2.M.G.2	Establishes relationships between units of measure.	Time Mentals Elapsed Time	Grade 3 Time Grade 4 Time
Measurement	Temperatures	QC2.M.H.1	Estimates and measures temperature using conventional units.	Temperature	Under review
Statistics	Statistics	QC2.S.1	Formulates questions for a survey (based on age-appropriate topics, students' language level, etc.).	Under review	Under review
Statistics	Statistics	QC2.S.2	Collects, describes and organizes data (classifies or categorizes) using tables.	Sorting Data 1	Grade 3 Chance and Data Grade 4 Chance and Data
Statistics	Statistics	QC2.S.3b	a table, a bar graph, a pictograph and a broken-line graph.	Pictographs Bar Graphs 1 Bar Graphs 2 Reading from a Bar Chart Divided Bar Graphs Compound Bar Chart Line Graphs: Interpretation	Grade 3 Chance and Data Grade 4 Chance and Data

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Two

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Statistics	Statistics	QC2.S.4a	Displays data using a table, a bar graph and a pictograph.	Pictographs Bar Graphs 1 Bar Graphs 2 Divided Bar Graphs Compound Bar Chart	Grade 3 Chance and Data Grade 4 Chance and Data
Statistics	Statistics	QC2.S.4b	Displays data using a table, a bar graph, a pictograph and a broken-line graph.	Pictographs Bar Graphs 1 Bar Graphs 2 Reading from a Bar Chart Divided Bar Graphs Compound Bar Chart Line Graphs: Interpretation	Grade 3 Chance and Data Grade 4 Chance and Data
Probability	Probability	QC2.P.1	When applicable, recognizes variability in possible outcomes (uncertainty).	Counting Principle Possible Outcomes	Grade 3 Chance and Data Grade 4 Chance and Data
Probability	Probability	QC2.P.2	When applicable, recognizes equiprobability (e.g. quantity, symmetry of an object [cube]).	Counting Principle Possible Outcomes	Grade 3 Chance and Data Grade 4 Chance and Data
Probability	Probability	QC2.P.3	When applicable, becomes aware of the independence of events in an experiment.	Under review	Grade 3 Chance and Data Grade 4 Chance and Data
Probability	Probability	QC2.P.4	Experiments with activities involving chance, using various objects (e.g. spinners, rectangular prisms, glasses, marbles, thumb tacks, 6-, 8- or 12-sided dice).	Complementary Events Simple Probability Dice and Coins	Grade 3 Chance and Data Grade 4 Chance and Data
Probability	Probability	QC2.P.2a	Certain, possible or impossible outcome.	What are the Chances?	Grade 3 Chance and Data Grade 4 Chance and Data
Probability	Probability	QC2.P.2b	More likely, just as likely, less likely event.	Most Likely and Least Likely What are the Chances? Probability Scale	Grade 3 Chance and Data Grade 4 Chance and Data
Probability	Probability	QC2.P.6	Distinguishes between prediction and outcome.	Find the Probability Relative Frequency	Grade 3 Chance and Data Grade 4 Chance and Data

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Two

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Probability	Probability	QC2.P.7	Uses tables or diagrams to collect and display the outcomes of an experiment.	Venn Diagram	Grade 3 Chance and Data Grade 4 Chance and Data
Probability	Probability	QC2.P.8a	Enumerates possible outcomes of a simple random experiment.	Counting Principle Possible Outcomes Simple Probability	Grade 3 Chance and Data Grade 4 Chance and Data
Probability	Probability	QC2.P.8b	Enumerates possible outcomes of a random experiment, using a table, a tree diagram.	Venn Diagram Tree Diagrams	Grade 3 Chance and Data Grade 4 Chance and Data
Probability	Probability	QC2.P.9	Compares qualitatively the theoretical or experimental probability of events.	Tree Diagrams	Grade 3 Chance and Data Grade 4 Chance and Data
Probability	Probability	QC2.P.13	Simulates random experiments with or without the use of technology.	Under review	Under review

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Three

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1 000 000	QC3.A.1.A.1b	Counts forward or backward.	Counting Backward Counting Forward	Grade 5 Reading and Understanding Whole Numbers Grade 6 Reading and Understanding Whole Numbers
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1 000 000	QC3.A.1.A.1c	Skip counts (e.g. by twos).	Skip Counting Counting by Twos Counting by Fives Counting by Tens	Grade 5 Patterns and Algebra Grade 6 Patterns and Algebra
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1 000 000	QC3.A.1.A.2c	Counts a collection by grouping or regrouping.	Groups of Two Groups of Five Groups of Ten Groups of Three Groups of Four Groups of Six Groups of Seven Groups of Eight Groups of Nine	Grade 5 Patterns and Algebra Grade 6 Patterns and Algebra
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1 000 000	QC3.A.1.A.2d	Counts a pre-grouped collection.	Groups of Two Groups of Five Groups of Ten Groups of Three Groups of Four Groups of Six Groups of Seven Groups of Eight Groups of Nine	Grade 5 Patterns and Algebra Grade 6 Patterns and Algebra
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1 000 000	QC3.A.1.A.3	Reads and writes any natural number.	Numbers from Words to Digits 3 Place Value to Millions	Grade 5 Reading and Understanding Whole Numbers Grade 6 Reading and Understanding Whole Numbers
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1 000 000	QC3.A.1.A.4c	Emphasis on place value in non-apparent, non-accessible groupings, using materials for which groupings are symbolic.	Place Value to Millions Expanded Notation Expanding Numbers	Grade 5 Reading and Understanding Whole Numbers Grade 6 Reading and Understanding Whole Numbers

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Three

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1 000 000	QC3.A.1.A.3	Composes and decomposes a natural number in a variety of ways.	Expanding Numbers Expanded Notation	Grade 5 Reading and Understanding Whole Numbers Grade 6 Reading and Understanding Whole Numbers
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1 000 000	QC3.A.1.A.6	Identifies equivalent expressions.	Find the Missing Number 1 Find the Missing Number 2	Grade 5 Reading and Understanding Whole Numbers Grade 6 Reading and Understanding Whole Numbers
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1 000 000	QC3.A.1.A.7	Compares natural numbers.	Which Is Greater? Which Is Less?	Grade 5 Reading and Understanding Whole Numbers Grade 6 Reading and Understanding Whole Numbers
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1 000 000	QC3.A.1.A.8	Arranges natural numbers in increasing or decreasing order.	Ascending Order Descending Order	Grade 5 Reading and Understanding Whole Numbers Grade 6 Reading and Understanding Whole Numbers
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1 000 000	QC3.A.1.A.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).	Odd or Even Odd and Even Numbers 1 Prime or Composite?	Grade 5 Reading and Understanding Whole Numbers Grade 6 Reading and Understanding Whole Numbers
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1 000 000	QC3.A.1.A.10	Locates natural numbers using different visual aids.	Number Line Order	Grade 5 Reading and Understanding Whole Numbers Grade 6 Reading and Understanding Whole Numbers

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Three

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1 000 000	QC3.A.1.A.11a	Odd or even numbers	Odd and Even Odd and Even Numbers 1	Grade 5 Reading and Understanding Whole Numbers Grade 6 Reading and Understanding Whole Numbers
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1 000 000	QC3.A.1.A.11b	Square, prime or composite numbers.	Prime or Composite? Product of Prime Factors	Grade 5 Reading and Understanding Whole Numbers Grade 6 Reading and Understanding Whole Numbers
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1 000 000	QC3.A.1.A.12	Classifies natural numbers in various ways, based on their properties (e.g. even numbers, composite numbers).	Odd or Even Odd and Even Numbers 1 Prime or Composite?	Grade 5 Reading and Understanding Whole Numbers Grade 6 Reading and Understanding Whole Numbers
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1 000 000	QC3.A.1.A.13	Approximates a collection, using objects or drawings (e.g. estimate, round up/down to a given value).	Nearest 10? Nearest 100? Nearest 1000?	Grade 5 Reading and Understanding Whole Numbers Grade 6 Reading and Understanding Whole Numbers
Arithmetic: Understanding and Writing Numbers	Natural numbers less than 1 000 000	QC3.A.1.A.14	Represents the power of a natural number.	Exponents Multiplying by 10, 100, 1000	Grade 5 Reading and Understanding Whole Numbers Grade 6 Reading and Understanding Whole Numbers
Arithmetic: Understanding and Writing Numbers	Fractions	QC3.A.1.B.2	Represents a fraction in a variety of ways, based on a whole or a collection of objects.	Model Fractions Part-Whole Rods 1 Part-Whole Rods 2 Fractions of a Collection 1 Fractions of a Collection 2 Fraction Wall Labelling 1 Fraction Wall Labelling 2	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages

Quebec Curriculum

Alignment with Mathletics

Quebec Cycle Three

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Understanding and Writing Numbers	Fractions	QC3.A.1.B.3	Matches a fraction to part of a whole (congruent or equivalent parts) or part of a group of objects, and vice versa.	Part-Whole Rods 1 Part-Whole Rods 2	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Understanding and Writing Numbers	Fractions	QC3.A.1.B.4	Identifies the different meanings of fractions (sharing, division, ratio).	Partition into Equal Parts	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Understanding and Writing Numbers	Fractions	QC3.A.1.B.5	Distinguishes a numerator from a denominator.	Partition into Equal Parts	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Understanding and Writing Numbers	Fractions	QC3.A.1.B.6	Reads and writes a fraction.	What Fraction is Shaded? Shape Fractions	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Understanding and Writing Numbers	Fractions	QC3.A.1.B.7	Compares a fraction to 0, $\frac{1}{2}$ or 1.	Halves Is it Half? Fractions of a Collection 1 Fractions of a Collection 2 Fraction Fruit Sets 1 Fraction Wall Labelling 1 Fraction Wall Labelling 2 Fraction Length Models 1	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Understanding and Writing Numbers	Fractions	QC3.A.1.B.8	Verifies whether two fractions are equivalent.	Equivalent Fractions Equivalent Fractions 1 Equivalent Fractions on a Number Line 1 Equivalent Fractions on a Number Line 2 Shading Equivalent Fractions Equivalent Fraction Wall 1 Equivalent Fraction Wall 2	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Three

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Understanding and Writing Numbers	Fractions	QC3.A.1.B.9	Matches a decimal or percentage to a fraction.	Fractions to Decimals Decimals to Fractions 1 Percentage to Fraction Fractions to Decimals 2 Decimals to Fractions 2	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Understanding and Writing Numbers	Fractions	QC3.A.1.B.10	Orders fractions with the same denominator.	Ordering Fractions Comparing Fractions 1	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Understanding and Writing Numbers	Fractions	QC3.A.1.B.11	Orders fractions where one denominator is a multiple of the other(s).	Ordering Fractions Comparing Fractions 1	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Understanding and Writing Numbers	Fractions	QC3.A.1.B.12	Orders fractions with the same numerator.	Ordering Fractions Comparing Fractions 1	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Understanding and Writing Numbers	Fractions	QC3.A.1.B.13	Locates fractions on a number line.	Counting with Fractions on a Number Line Equivalent Fractions on a Number Line 1 Identifying Fractions on a Number Line	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Understanding and Writing Numbers	Decimals up to thousandths	QC3.A.1.C.1	Represents decimals in a variety of ways (using objects or drawings).	Under review	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Understanding and Writing Numbers	Decimals up to thousandths	QC3.A.1.C.2	Identifies equivalent representations (using objects or drawings).	Under review	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Three

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Understanding and Writing Numbers	Decimals up to thousandths	QC3.A.1.C.3	Reads and writes numbers written in decimal notation.	Rounding Decimals 1 Decimals from Words to Digits 1	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Understanding and Writing Numbers	Decimals up to thousandths	QC3.A.1.C.3	Composes and decomposes a decimal written in decimal notation.	Nearest Whole Number	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Understanding and Writing Numbers	Decimals up to thousandths	QC3.A.1.C.6	Recognizes equivalent expressions (e.g. 12 tenths is equivalent to 1 unit and 2 tenths; 0.5 is equivalent to 0.50).	Decimal Place Value Rounding Decimals 1	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Understanding and Writing Numbers	Decimals up to thousandths	QC3.A.1.C.7a	Locates decimals on a number line between two consecutive natural numbers.	Decimals on a Number Line Decimals on the Number Line	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Understanding and Writing Numbers	Decimals up to thousandths	QC3.A.1.C.7b	Locates decimals on a number line between two decimals.	Decimals on a Number Line Decimals on the Number Line	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Understanding and Writing Numbers	Decimals up to thousandths	QC3.A.1.C.8	Compares two decimals.	Comparing Decimals Comparing Decimals 2	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Understanding and Writing Numbers	Decimals up to thousandths	QC3.A.1.C.9	Approximates (e.g. estimates, rounds to a given value, truncates decimal places).	Rounding Decimals	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Three

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Understanding and Writing Numbers	Decimals up to thousandths	QC3.A.1.C.10	Arranges decimals in increasing or decreasing order.	Comparing Decimals Comparing Decimals 2	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Understanding and Writing Numbers	Decimals up to thousandths	QC3.A.1.C.11a	Matches a fraction to its decimal.	Fractions to Decimals 2 Fractions to Decimals Decimals to Fractions 1 Decimals to Fractions 2	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Understanding and Writing Numbers	Decimals up to thousandths	QC3.A.1.C.11b	Matches a fraction or percentage to its decimal.	Fractions to Decimals 2 Fractions to Decimals Decimals to Fractions 1 Decimals to Fractions 2	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Understanding and Writing Numbers	Integers	QC3.A.1.D.1	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).	Directed Numbers	Grade 7 Integers
Arithmetic: Understanding and Writing Numbers	Integers	QC3.A.1.D.2	Reads and writes integers	Ordering Integers	Grade 7 Integers
Arithmetic: Understanding and Writing Numbers	Integers	QC3.A.1.D.3	Locates integers on a number line or Cartesian plane.	Integers on a Number Line Coordinate Graphs Coordinate Graphs: 1st Quadrant	Grade 7 Integers
Arithmetic: Understanding and Writing Numbers	Integers	QC3.A.1.D.4	Compares integers	Comparing Integers	Grade 7 Integers
Arithmetic: Understanding and Writing Numbers	Integers	QC3.A.1.D.5	Arranges integers in increasing or decreasing order.	Ordering Integers	Grade 7 Integers

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Three

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Meaning of operations involving numbers	Natural numbers less than 1 000 000	QC3.A.2.A.1	Determines the operation(s) to perform in a given situation.	Problems: Add and Subtract Problems: Add and Subtract 2 Problems: Multiply and Divide	Grade 5 Addition and Subtraction Grade 6 Addition and Subtraction
Arithmetic: Meaning of operations involving numbers	Natural numbers less than 1 000 000	QC3.A.2.A.2a	Uses objects, diagrams or equations to describe transformation (adding, taking away), uniting, comparing.	Mental Addition Magic Mental Subtraction Addition Properties	Grade 5 Addition and Subtraction Grade 6 Addition and Subtraction
Arithmetic: Meaning of operations involving numbers	Natural numbers less than 1 000 000	QC3.A.2.A.2b	Uses objects, diagrams or equations to describe composition of transformations: positive, negative.	Mental Addition Magic Mental Subtraction	Grade 5 Addition and Subtraction Grade 6 Addition and Subtraction
Arithmetic: Meaning of operations involving numbers	Natural numbers less than 1 000 000	QC3.A.2.A.2c	Uses objects, diagrams or equations to describe composition of mixed transformations.	Mental Addition Magic Mental Subtraction	Grade 5 Addition and Subtraction Grade 6 Addition and Subtraction
Arithmetic: Meaning of operations involving numbers	Natural numbers less than 1 000 000	QC3.A.2.A.3b	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 multiplication and division). 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).	Related Facts 2 Multiplication Arrays	Grade 5 Multiplication and Division Grade 6 Multiplication and Division
Arithmetic: Meaning of operations involving numbers	Natural numbers less than 1 000 000	QC3.A.2.A.4	Establishes equality relations between numerical expressions (e.g. $3 + 2 = 6 - 1$).	Problems: Add and Subtract Problem: Add and Subtract 2	Grade 5 Multiplication and Division Grade 6 Multiplication and Division

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Three

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Meaning of operations involving numbers	Natural numbers less than 1 000 000	QC3.A.2.A.5.c	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 or subtraction.	Addition Properties Commutative Property of Addition Adding In Any Order Related Facts 2	Grade 5 Addition and Subtraction Grade 6 Addition and Subtraction
Arithmetic: Meaning of operations involving numbers	Natural numbers less than 1 000 000	QC3.A.2.A.6	Translates a situation using a series of operations in accordance with the order of operations.	Order of Operations 1 (BEDMAS) Integers: Order of Operations (BEDMAS)	Grade 5 Addition and Subtraction Grade 6 Addition and Subtraction
Arithmetic: Meaning of operations involving numbers	Decimals up to thousandths	QC3.A.2.B.1a	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) transformation (adding, taking away), uniting, comparing.	Under review	Grade 5 Patterns and Algebra Grade 6 Patterns and Algebra
Arithmetic: Meaning of operations involving numbers	Decimals up to thousandths	QC3.A.2.B.1b	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) composition of transformations: positive, negative.	Under review	Grade 5 Patterns and Algebra Grade 6 Patterns and Algebra
Arithmetic: Meaning of operations involving numbers	Decimals up to thousandths	QC3.A.2.B.1c	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) composition of mixed transformations.	Under review	Grade 5 Patterns and Algebra Grade 6 Patterns and Algebra
Arithmetic: Meaning of operations involving numbers	Decimals up to thousandths	QC3.A.2.B.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 multiplication and division: rectangular arrays, Cartesian product, area, volume, sharing, number of times x goes into y, and comparisons).	Under review	Grade 5 Patterns and Algebra Grade 6 Patterns and Algebra

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Three

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Meaning of operations involving numbers	Decimals up to thousandths	QC3.A.2.B.3b	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 or subtraction.	Decimal by Whole Number Decimal by Decimal Divide Decimal by Decimal Divide Decimal by Whole Number Multiply Decimals: 10, 100, 1000 Divide Decimals: 10, 100, 1000	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Meaning of operations involving numbers	Decimals up to thousandths	QC3.A.2.B.4	Translates a situation into a series of operations in accordance with the order of operations.	Decimal by Whole Number Decimal by Decimal Divide Decimal by Decimal Divide Decimal by Whole Number	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Meaning of operations involving numbers	Fractions	QC3.A.2.C.1	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, subtraction and multiplication by a natural number).	Shape Fractions	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Operations Involving Numbers	Natural numbers less than 1 000 000	QC3.A.3.A.1a	Approximates the result of an addition or subtraction involving natural numbers.	Estimation: Add and Subtract	Grade 5 Addition and Subtraction Grade 6 Addition and Subtraction
Arithmetic: Operations Involving Numbers	Natural numbers less than 1 000 000	QC3.A.3.A.1b	Approximates the result of any of the four operations involving natural numbers.	Estimation: Add and Subtract Estimate Sums Estimate Products Estimate Differences Estimate Quotients	Grade 5 Addition and Subtraction Grade 6 Addition and Subtraction
Arithmetic: Operations Involving Numbers	Natural numbers less than 1 000 000	QC3.A.3.A.2b	Develops various strategies that promote mastery of number facts and relates them to the properties of addition.	Fact Families: Add and Subtract	Grade 5 Addition and Subtraction Grade 6 Addition and Subtraction

Quebec Curriculum

Alignment with Mathletics

Quebec Cycle Three

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Operations Involving Numbers	Natural numbers less than 1 000 000	QC3.A.3.A.2c	Masters all addition facts (0 + 0 to 10 + 10) and the corresponding subtraction facts.	Fact Families: Add and Subtract Mental Addition Magic Mental Subtraction	Grade 5 Addition and Subtraction Grade 6 Addition and Subtraction
Arithmetic: Operations Involving Numbers	Natural numbers less than 1 000 000	QC3.A.3.A.3a	Uses his/her own processes to determine the sum or difference of two natural numbers.	Fact Families: Add and Subtract Mental Addition Magic Mental Subtraction	Grade 5 Addition and Subtraction Grade 6 Addition and Subtraction
Arithmetic: Operations Involving Numbers	Natural numbers less than 1 000 000	QC3.A.3.A.3b	Uses his/her own processes to determine the product or quotient of two natural numbers.	Mental Methods Division 1 Mental Methods Division 2 Mental Methods Division 3 Mental Methods Multiplication 1 Mental Methods Multiplication 2 Mental Methods Multiplication 3	Grade 5 Multiplication and Division Grade 6 Multiplication and Division
Arithmetic: Operations Involving Numbers	Natural numbers less than 1 000 000	QC3.A.3.A.4b	Uses conventional processes to determine the sum of two natural numbers of up to four digits.	Adding Colossal Columns Add 3-Digit Numbers Add 3-Digit Numbers: Regroup Add Three 3-Digit Numbers: Regroup	Grade 5 Addition and Subtraction Grade 6 Addition and Subtraction
Arithmetic: Operations Involving Numbers	Natural numbers less than 1 000 000	QC3.A.3.A.4c	Uses conventional processes to determine the difference between two natural numbers of up to four digits whose result is greater than 0.	3-Digit Differences: 1 Regrouping 3-Digit Differences: 2 Regroupings 3-Digit Differences 3-Digit Differences with Zeros	Grade 5 Addition and Subtraction Grade 6 Addition and Subtraction
Arithmetic: Operations Involving Numbers	Natural numbers less than 1 000 000	QC3.A.3.A.5	Determines the missing term in an equation (relationships between operations).	Find the Missing Number 1 Find the Missing Number 2 Problems: Multiply and Divide	Grade 5 Patterns and Algebra Grade 6 Patterns and Algebra

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Three

Strand	Substrand	Outcome	Outcome Description	Activities	eBooks
Arithmetic: Operations Involving Numbers	Natural numbers less than 1 000 000	QC3.A.3.A.6b	Develops various strategies that promote mastery of number facts and relate them to the properties of multiplication.	Mental Methods Division Mental Methods Division 1 Mental Methods Division 2 Mental Methods Division 3 Mental Methods Multiplication 1 Mental Methods Multiplication 2 Mental Methods Multiplication 3 Multiply: 2-Digit Number, Regroup Multiply 2 Digits Area Model	Grade 5 Addition and Subtraction Multiplication and Division Grade 6 Addition and Subtraction Multiplication and Division
Arithmetic: Operations Involving Numbers	Natural numbers less than 1 000 000	QC3.A.3.A.6c	Masters all multiplication facts (0×0 to 10×10) and the corresponding division facts.	Multiplication Facts Mental Methods Division 1 Mental Methods Division 2 Mental Methods Division 3 Mental Methods Multiplication 1 Mental Methods Multiplication 2 Mental Methods Multiplication 3	Grade 5 Multiplication and Division Grade 6 Multiplication and Division
Arithmetic: Operations Involving Numbers	Natural numbers less than 1 000 000	QC3.A.3.A.7b	Uses conventional processes to determine the product of a three-digit natural number and a two-digit natural number.	Multiply: 2-Digit Number, Regroup Multiply 2 Digits Area Model	Grade 5 Multiplication and Division Grade 6 Multiplication and Division
Arithmetic: Operations Involving Numbers	Natural numbers less than 1 000 000	QC3.A.3.A.7c	Uses conventional 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.	Divide: 2-Digit Divisor, Remainder	Grade 5 Multiplication and Division Grade 6 Multiplication and Division

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Three

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Operations Involving Numbers	Natural numbers less than 1 000 000	QC3.A.3.A.8	Determines the missing term in an equation (relationships between operations).	Solve Equations: Multiply, Divide 1 Find the Missing Number 1 Find the Missing Number 2 Problems: Multiply and Divide	Grade 5 Patterns and Algebra Grade 6 Patterns and Algebra
Arithmetic: Operations Involving Numbers	Natural numbers less than 1 000 000	QC3.A.3.A.9	Decomposes a number into prime factors.	Product of Prime Factors	Under review
Arithmetic: Operations Involving Numbers	Natural numbers less than 1 000 000	QC3.A.3.A.10	Calculates the power of a number.	Product of Prime Factors Exponents	Under review
Arithmetic: Operations Involving Numbers	Natural numbers less than 1 000 000	QC3.A.3.A.11	Determines the divisibility of a number by 2, 3, 4, 5, 6, 8, 9, 10.	Divisibility Tests Divisibility Tests (2, 5, 10) Divisibility Tests (3, 4, 9)	Grade 5 Multiplication and Division Grade 6 Multiplication and Division
Arithmetic: Operations Involving Numbers	Natural numbers less than 1 000 000	QC3.A.3.A.12	Performs a series of operations in accordance with the order of operations.	Order of Operations 1 (BEDMAS) Integers: Order of Operations (BEDMAS)	Grade 5 Addition and Subtraction Multiplication and Division Grade 6 Addition and Subtraction Multiplication and Division
Arithmetic: Operations Involving Numbers	Natural numbers less than 1 000 000	QC3.A.3.A.13a	Non-numerical patterns (e.g. series of colours, shapes, sounds, gestures).	Describing Patterns Colour Patterns	Grade 5 Patterns and Algebra Grade 6 Patterns and Algebra
Arithmetic: Operations Involving Numbers	Natural numbers less than 1 000 000	QC3.A.3.A.13b	Numerical patterns (e.g. number rhymes, tables and charts).	Increasing Patterns Decreasing Patterns	Grade 5 Patterns and Algebra Grade 6 Patterns and Algebra

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Three

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Operations Involving Numbers	Natural numbers less than 1 000 000	QC3.A.3.A.13c	Series of numbers and family of operations.	Increasing Patterns Decreasing Patterns	Grade 5 Patterns and Algebra Grade 6 Patterns and Algebra
Arithmetic: Operations Involving Numbers	Natural numbers less than 1 000 000	QC3.A.3.A.14	Adds new terms to a series when the first three terms or more are given.	Increasing Patterns Decreasing Patterns	Grade 5 Patterns and Algebra Grade 6 Patterns and Algebra
Arithmetic: Operations Involving Numbers	Natural numbers less than 1 000 000	QC3.A.3.A.15a	Uses a calculator and becomes familiar with its basic functions (+, −, =, 0 to 9 number keys, all clear, clear).	Under review	Under review
Arithmetic: Operations Involving Numbers	Natural numbers less than 1 000 000	QC3.A.3.A.15b	Uses a calculator and becomes familiar with its × and ÷ functions.	Under review	Under review
Arithmetic: Operations Involving Numbers	Natural numbers less than 1 000 000	QC3.A.3.A.15c	Uses a calculator and becomes familiar with memory keys and change of sign keys (+/−).	Under review	Under review
Arithmetic: Operations Involving Numbers	Fractions	QC3.A.3.B.1	Generates a set of equivalent fractions.	Shading Equivalent Fractions Equivalent Fractions 1	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Operations Involving Numbers	Fractions	QC3.A.3.B.2	Reduces a fraction to its simplest form (lowest terms).	Simplifying Fractions	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Operations Involving Numbers	Fractions	QC3.A.3.B.3	Adds and subtracts fractions when the denominator of one fraction is a multiple of the other fraction(s).	Add Like Fractions Subtract Like Fractions Add Unlike Fractions Subtract Unlike Fractions Add Subtract Fractions 1	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages

Quebec Curriculum

Alignment with Mathletics

Quebec Cycle Three

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Arithmetic: Operations Involving Numbers	Fractions	QC3.A.3.B.4	Multiplies a natural number by a fraction.	Fraction by Whole Number Model Fractions to Multiply	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Operations Involving Numbers	Decimals	QC3.A.3.C.1a	Approximates the result of an addition or a subtraction.	Estimate Decimal Differences 1 Estimate Decimal Sums 1 Estimate Decimal Differences 2 Estimate Decimal Sums 2	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Operations Involving Numbers	Decimals	QC3.A.3.C.1b	Approximates the result of a multiplication or division.	Estimate Decimal Operations	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Operations Involving Numbers	Decimals	QC3.A.3.C.2a	Develops processes for mental computation adds and subtracts decimals.	Add Decimals: Same Sign Add Decimals: Different Signs Subtract Decimals 1 Adding Decimals Add Decimals 2 Subtracting Decimals Subtract Decimals 2 Adding and Subtracting Decimals	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Operations Involving Numbers	Decimals	QC3.A.3.C.2b	Develops processes for mental computation-performs operations involving decimals (multiplication, division by a natural number).	Multiply Decimals: 10, 100, 1000 Divide Decimals: 10, 100, 1000 Decimal by Whole Number	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Operations Involving Numbers	Decimals	QC3.A.3.C.2c	Develops processes for mental computation-multiplies and divides by 10, 100, 1000.	Multiply Decimals: 10, 100, 1000 Divide Decimals: 10, 100, 1000	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Three

Strand	Substrand	Outcome	Outcome Description	Activities	eBooks
Arithmetic: Operations Involving Numbers	Decimals	QC3.A.3.C.3a	Develops processes for written computation-adds and subtracts decimals whose result does not go beyond the second decimal place.	Add Decimals: Same Sign Add Decimals: Different Signs Subtract Decimals 1 Adding Decimals Add Decimals 2 Subtracting Decimals Subtract Decimals 2 Adding and Subtracting Decimals	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Operations Involving Numbers	Decimals	QC3.A.3.C.3b	Develops processes for written computation-multiplies decimals whose product does not go beyond the second decimal place.	Decimal by Decimal	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Operations Involving Numbers	Decimals	QC3.A.3.C.3c	Develops processes for written computation-divides a decimal by a natural number less than 11.	Divide Decimal by Whole Number	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Operations Involving Numbers	Using Numbers	QC3.A.3.D.1	Expresses a decimal as a fraction, and vice versa.	Decimals to Fractions 1 Decimals to Fractions 2 Fractions to Decimals Fractions to Decimals 2	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Operations Involving Numbers	Using Numbers	QC3.A.3.D.2	Expresses a decimal as a percentage, and vice versa.	Percents and Decimals	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Operations Involving Numbers	Using Numbers	QC3.A.3.D.3	Expresses a fraction as a percentage, and vice versa.	Percents to Fractions	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages
Arithmetic: Operations Involving Numbers	Using Numbers	QC3.A.3.D.4	Chooses an appropriate number form for a given context.	Percents to Fractions Percents and Decimals	Grade 5 Fractions, Decimals and Percentages Grade 6 Fractions, Decimals and Percentages

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Three

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Geometry	Space	QC3.G.A.3	Locates objects on an axis (based on the types of numbers studied).	Coordinate Graphs: 1st Quadrant Number Plane	Grade 5 Position Grade 6 Position
Geometry	Space	QC3.G.A.4b	Locates points in a Cartesian plane in all four quadrants.	Ordered Pairs Coordinate Graphs	Grade 5 Position Grade 6 Position
Geometry	Solids	QC3.G.B.1	Compares objects or parts of objects in the environment with solids (e.g. spheres, cones, cubes, cylinders, prisms, pyramids).	Collect the Objects 1 Collect the Objects 2 Match the Object Right and Oblique Objects	Grade 5 Geometry Grade 6 Geometry
Geometry	Solids	QC3.G.B.3	Identifies the main solids (e.g. spheres, cones, cubes, cylinders, prisms, pyramids).	Collect the Objects 1 Collect the Objects 2 Match the Object Right and Oblique Objects	Grade 5 Geometry Grade 6 Geometry
Geometry	Solids	QC3.G.B.4	Identifies and represents the different faces of a prism or pyramid.	Faces, Edges and Vertices	Grade 5 Geometry Grade 6 Geometry
Geometry	Solids	QC3.G.B.5	Describes prisms and pyramids in terms of faces, vertices and edges.	Prisms and Pyramids Faces, Edges and Vertices	Grade 5 Geometry Grade 6 Geometry
Geometry	Solids	QC3.G.B.6	Classifies prisms and pyramids.	What Pyramid am I? Collect the Objects 1 Collect the Objects 2 Match the Object Right and Oblique Objects	Grade 5 Geometry Grade 6 Geometry
Geometry	Solids	QC3.G.B.7	Constructs a net of a prism or pyramid.	Nets	Grade 5 Geometry Grade 6 Geometry
Geometry	Solids	QC3.G.B.8c	Matches the net of a convex polyhedron to the corresponding convex polyhedron.	Nets	Grade 5 Geometry Grade 6 Geometry
Geometry	Solids	QC3.G.B.9	Tests Euler's theorem on convex polyhedrons.	Euler's Formula	Grade 5 Geometry Grade 6 Geometry

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Three

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Geometry	Plane figures	QC3.G.C.2	Identifies plane figures (square, rectangle, triangle, rhombus and circle).	Collect the Shapes 1 Collect the Shapes 2 Collect More Shapes Shapes	Grade 5 Geometry Grade 6 Geometry
Geometry	Plane figures	QC3.G.C.3	Describes plane figures (square, rectangle, triangle and rhombus).	Collect the Shapes 1 Collect the Shapes 2 Collect More Shapes Shapes Sides, Angles and Diagonals Count Sides and Corners	Grade 5 Geometry Grade 6 Geometry
Geometry	Plane figures	QC3.G.C.4	Describes convex and nonconvex polygons.	Collect the Shapes 1 Collect the Shapes 2 Collect More Shapes Shapes Sides, Angles and Diagonals Count Sides and Corners	Grade 5 Geometry Grade 6 Geometry
Geometry	Plane figures	QC3.G.C.5	Identifies and constructs parallel lines and perpendicular lines.	Sides, Angles and Diagonals Count Sides and Corners What Line Am I?	Grade 5 Geometry Grade 6 Geometry
Geometry	Plane figures	QC3.G.C.6	Describes quadrilaterals (e.g. parallel segments, perpendicular segments, right angles, acute angles, obtuse angles).	Collect the Shapes 1 Collect the Shapes 2 Collect More Shapes Shapes Sides, Angles and Diagonals Count Sides and Corners	Grade 5 Geometry Grade 6 Geometry
Geometry	Plane figures	QC3.G.C.7	Classifies quadrilaterals.	Collect the Shapes 1 Collect the Shapes 2 Collect More Shapes Shapes	Grade 5 Geometry Grade 6 Geometry
Geometry	Plane figures	QC3.G.C.8	Describes triangles: scalene triangles, right triangles, isosceles triangles, equilateral triangles.	Collect the Shapes 1 Collect the Shapes 2 Collect More Shapes Shapes	Grade 5 Geometry Grade 6 Geometry
Geometry	Plane figures	QC3.G.C.9	Classifies triangles.	Triangles: Acute, Right, Obtuse Triangle Tasters	Grade 5 Geometry Grade 6 Geometry

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Three

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Geometry	Plane figures	QC3.G.C.10	Describes circles.	Circle Terms	Grade 5 Geometry Grade 6 Geometry
Geometry	Frieze patterns and tessellations	QC3.G.D.1	Identifies congruent figures.	Congruent Figures (Grid) Congruent Figures (Dots)	Under review
Geometry	Frieze patterns and tessellations	QC3.G.D.3a	Observes and produces frieze patterns and tessellations using reflections.	Flip, Slide, Turn	Grade 5 Geometry Grade 6 Geometry
Geometry	Frieze patterns and tessellations	QC3.G.D.3b	Observes and produces frieze patterns and tessellations using translations.	Flip, Slide, Turn	Grade 5 Geometry Grade 6 Geometry
Measurement	Lengths	QC3.M.A.4c	Estimates and measures with metre, decimetre, centimetre, millimetre and kilometre.	Centimetres and Metres Metres and Kilometres Converting cm and mm	Grade 5 Length, Perimeter and Area Grade 6 Length, Perimeter and Area
Measurement	Lengths	QC3.M.A.5b	Establishes relationships between units of measure for length – metre, decimetre, centimetre, millimetre and kilometre.	Converting Units of Length Kilometre Conversions	Grade 5 Length, Perimeter and Area Grade 6 Length, Perimeter and Area
Measurement	Lengths	QC3.M.A.6	Calculates the perimeter of plane figures.	Perimeter: Squares and Rectangles Perimeter: Triangles Perimeter Detectives 1	Grade 5 Length, Perimeter and Area Grade 6 Length, Perimeter and Area
Measurement	Surface Areas	QC3.M.B.1b	Estimates and measures surface area using conventional units.	Under review	Grade 5 Length, Perimeter and Area Grade 6 Length, Perimeter and Area
Measurement	Volumes	QC3.M.C.1b	Estimates and measures volume using conventional units.	Converting Volume	Grade 5 Length, Perimeter and Area Grade 6 Length, Perimeter and Area

Quebec Curriculum

Alignment with Mathletics

Quebec Cycle Three

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Measurement	Angles	QC3.M.D.1	Compares angles	Classifying Angles Measuring Angles Estimating Angles Equal Angles Comparing Angles	Grade 5 Geometry Grade 6 Geometry
Measurement	Angles	QC3.M.D.2	Estimates and determines the degree measurement of angles.	Classifying Angles Measuring Angles Estimating Angles Equal Angles Comparing Angles	Grade 5 Geometry Grade 6 Geometry
Measurement	Capacities	QC3.M.E.1	Estimates and measures capacity using unconventional units.	Under review	Grade 5 Volume, Capacity and Mass Grade 6 Volume, Capacity and Mass
Measurement	Capacities	QC3.M.E.2	Estimates and measures capacity using conventional units.	Under review	Grade 5 Volume, Capacity and Mass Grade 6 Volume, Capacity and Mass
Measurement	Capacities	QC3.M.E.3	Establishes relationships between units of measure. (capacity)	Litre Conversions	Grade 5 Volume, Capacity and Mass Grade 6 Volume, Capacity and Mass
Measurement	Masses	QC3.M.F.1	Estimates and measures mass using unconventional units.	Under review	Grade 5 Volume, Capacity and Mass Grade 6 Volume, Capacity and Mass
Measurement	Masses	QC3.M.F.2	Estimates and measures mass using conventional units.	Everyday Mass	Grade 5 Volume, Capacity and Mass Grade 6 Volume, Capacity and Mass
Measurement	Masses	QC3.M.F.3	Establishes relationships between units of measure. (mass)	Converting Units of Mass Kilogram Conversions	Grade 5 Volume, Capacity and Mass Grade 6 Volume, Capacity and Mass

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Three

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Measurement	Time	QC3.M.G.1	Estimates and measures time using conventional units.	Time Mentals Elapsed Time	Grade 5 Time Grade 6 Time
Measurement	Time	QC3.M.G.2	Establishes relationships between units of measure. (time)	Time Mentals Elapsed Time	Grade 5 Time Grade 6 Time
Measurement	Temperatures	QC3.M.H.1	Estimates and measures temperature using conventional units.	Temperature	Under review
Statistics	Statistics	QC3.S.1	Formulates questions for a survey (based on age-appropriate topics, students' language level, etc.).	Under review	Grade 5 Data Representation Grade 6 Data Representation
Statistics	Statistics	QC3.S.2	Collects, describes and organizes data (classifies or categorizes) using tables.	Interpreting Tables	Grade 5 Data Representation Grade 6 Data Representation
Statistics	Statistics	QC3.S.3c	Interprets data using a table, a bar graph, a pictograph, a broken-line graph and a circle graph.	Pictographs Bar Graphs 1 Circle Graphs Interpreting Tables	Grade 5 Data Representation Grade 6 Data Representation
Statistics	Statistics	QC3.S.4b	Displays data using a table, a bar graph, a pictograph and a broken-line graph.	Pictographs Bar Graphs 1 Bar Graphs 2 Reading from a Bar Chart Divided Bar Graphs Compound Bar Chart Line Graphs: Interpretation	Grade 5 Data Representation Grade 6 Data Representation
Statistics	Statistics	QC3.S.5	Understands and calculates the arithmetic mean.	Mean Mean from Frequency Table Data Terms	Grade 5 Data Representation Grade 6 Data Representation

Quebec Curriculum

Alignment with Mathletics



Quebec Cycle Three

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Probability	Probability	QC3.P.1	When applicable, recognizes variability in possible outcomes (uncertainty).	Counting Techniques 1 Possible Outcomes	Grade 5 Chance and Probability Grade 6 Chance and Probability
Probability	Probability	QC3.P.2	When applicable, recognizes equiprobability (e.g. quantity, symmetry of an object [cube]).	Counting Techniques 1 Possible Outcomes	Grade 5 Chance and Probability Grade 6 Chance and Probability
Probability	Probability	QC3.P.3	When applicable, becomes aware of the independence of events in an experiment.	Dice and Coins	Grade 5 Chance and Probability Grade 6 Chance and Probability
Probability	Probability	QC3.P.4	Experiments with activities involving chance, using various objects (e.g. spinners, rectangular prisms, glasses, marbles, thumb tacks, 6-, 8- or 12-sided dice).	Simple Probability Probability Tables Dice and Coins	Grade 5 Chance and Probability Grade 6 Chance and Probability
Probability	Probability	QC3.P.5a	Certain, possible or impossible outcome.	Possible Outcomes	Grade 5 Chance and Probability Grade 6 Chance and Probability
Probability	Probability	QC3.P.5b	More likely, just as likely, less likely event.	Most Likely and Least Likely	Grade 5 Chance and Probability Grade 6 Chance and Probability
Probability	Probability	QC3.P.6	Distinguishes between prediction and outcome.	Most Likely and Least Likely Find the Probability	Grade 5 Chance and Probability Grade 6 Chance and Probability

Quebec Curriculum

Alignment with Mathletics

Quebec Cycle Three

Strand	Substrand	Outcome	Outcome Description	 Activities	 eBooks
Probability	Probability	QC3.P.7	Uses tables or diagrams to collect and display the outcomes of an experiment.	Frequency Histograms Mean from Frequency Table	Grade 5 Chance and Probability Grade 6 Chance and Probability
Probability	Probability	QC3.P.8b	Enumerates possible outcomes of a random experiment, using a table, a tree diagram.	Tree Diagrams	Grade 5 Chance and Probability Grade 6 Chance and Probability
Probability	Probability	QC3.P.9	Compares qualitatively the theoretical or experimental probability of events.	Tree Diagrams	Grade 5 Chance and Probability Grade 6 Chance and Probability
Probability	Probability	QC3.P.10	Recognizes that a probability is always between 0 and 1.	Probability Scale	Grade 5 Chance and Probability Grade 6 Chance and Probability
Probability	Probability	QC3.P.11	Uses fractions, decimals or percentages to quantify a probability.	Probability Scale Probability Tables Find the Probability	Grade 5 Chance and Probability Grade 6 Chance and Probability
Probability	Probability	QC3.P.12	Compares the outcomes of a random experiment with known theoretical probabilities.	Probability Scale Probability Tables Find the Probability	Grade 5 Chance and Probability Grade 6 Chance and Probability
Probability	Probability	QC3.P.13	Simulates random experiments with or without the use of technology.	Probability Scale Probability Tables Find the Probability	Grade 5 Chance and Probability Grade 6 Chance and Probability



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