# Mathletics Nova Scotia Curriculum

Skill Quests & Activities



**Grades 7-8** 

January 2024



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### Grade 7

#### 1 Number

#### 1.1 Students will be expected to develop number sense.

Students will be expected to determine and explain why a number is divisible by 2, 3, 4, 5, 6, 8, 9, or 10, and why a number cannot be divided by 0.		
Skill Quests	Skills	
Divisibility rules	Introducing divisibility rules for dividing by 2	
	Introducing divisibility rules for dividing by 3	
	Introducing divisibility rules for dividing by 4	
	Introducing divisibility rules for dividing by 5	
	Introducing divisibility rules for dividing by 6	
	Introducing divisibility rules for dividing by 8	
	Introducing divisibility rules for dividing by 9	
	Introducing divisibility rules for dividing by 10	
	Divisibility rules: dividing by 2, 3, 4, 5, 6, 10	
Course Topic	Activities Title	
Divisibility tests	Divisibility Tests	
·	Divisibility Tests (2, 5, 10)	
	Divisibility Tests (3, 4, 9)	
	Tests of Divisibility 1	

Students will be expected to demonstrate an understanding of the addition, subtraction, multiplication, and division of decimals to solve problems (for more than one-digit divisors or more than two-digit multipliers, the use of technology is expected). **Skill Quests Skills** Operations with decimals Adding decimals Subtracting decimals Multiplying decimals Multiplying decimals using place value Dividing decimals Applying order of operations, decimals Solving decimal word problems, 4 operations **Course Topic Activities Title** Add & subtract decimals **Decimal Complements** Adding Decimals Add Decimals 2 Subtracting Decimals Subtract Decimals 1 Subtract Decimals 2 Adding and Subtracting Decimals

Multiply & divide decimals	Multiply Decimals: 10, 100, 1000
	Multiply Decimals and Powers of 10
	Multiply Decimals 1
	Multiply Decimals: Area Model
	Decimal by Whole Number
	Decimal by Decimal
	Divide Decimal by Whole Number
	Divide Decimals
	Divide Decimal by Decimal
	Missing Values: Decimals

Students will be expected to solve problems involving percents from 1% to 100% (limited to whole numbers).	
Skill Quests	Skills
Percents, fractions &	Solving word problems involving percentages
decimals	Converting percents into fractions & decimals
Course Topic	Activities Title
Percents	Decimals to Percentages
	Percentages to Decimals
	Percentages to Fractions (with and without simplification)
	Fractions to Percentages (Non-Calculator)
	Calculating Percentages (Mental)
	Calculating Percentages 1
	Percent Increase and Decrease
	Percentage Word Problems
	What percentage?
	Quantities to Percentages (no units)
	Solve Percent Equations

Students will be expected to demonstrate an understanding of the relationship between positive terminating decimals and positive fractions and between positive repeating decimals (with one or two repeating digits) and positive fractions.		
Skill Quests	Skills	
Decimals & fractions	Investigating terminating & repeating decimals	
	Converting terminating decimals to fractions	
	Converting repeating decimals to fractions	
	Converting fractions to terminating decimals	
	Converting fractions to repeating decimals	
Course Topic	Activities Title	
Terminating & recurring	Fractions to Decimals	
decimals	Fractions to Decimals 2	
	Decimals to Fractions 1	
	Decimals to Fractions 2	
	Recurring Decimals	
	Recurring Decimals and Series	

Students will be expected to demonstrate an understanding of adding and subtracting positive fractions and mixed numbers, with like and unlike denominators, concretely, pictorially, and symbolically (limited to positive sums and differences).

Skill Quests	Skills
Add fractions & mixed	Adding fractions, like denominator
numbers	Adding a whole number & a fraction
	Adding improper fractions, like denominator
	Adding mixed numbers, like denominator
	Adding fractions, unlike denominator
	Adding improper fractions, unlike denominator
	Adding mixed numbers, unlike denominator
Subtract fractions & mixed	Subtracting fractions, like denominator
numbers	Subtracting a fraction from a whole number
	Subtracting improper fractions, like denominator
	Subtracting with mixed numbers, like denominator
	Subtracting fractions, unlike denominator
	Subtracting improper fractions, unlike denominator
	Subtracting with mixed numbers, unlike denominator
Add & subtract fractions,	Adding & subtracting fractions, word problems
word problems	
word problems	
Course Topic	Activities Title
	Activities Title Add: Common Denominator
Course Topic	Add: Common Denominator Add Like Fractions
Course Topic	Add: Common Denominator
Course Topic	Add: Common Denominator  Add Like Fractions  Add Unlike Fractions  Add: No Common Denominator
Course Topic	Add: Common Denominator  Add Like Fractions  Add Unlike Fractions  Add: No Common Denominator  Add Like Mixed Numbers
Course Topic	Add: Common Denominator Add Like Fractions Add Unlike Fractions Add: No Common Denominator Add Like Mixed Numbers Add Mixed Numbers: Same Sign
Course Topic	Add: Common Denominator  Add Like Fractions  Add Unlike Fractions  Add: No Common Denominator  Add Like Mixed Numbers  Add Mixed Numbers: Same Sign  Add Unlike Mixed Numbers
Course Topic	Add: Common Denominator  Add Like Fractions  Add Unlike Fractions  Add: No Common Denominator  Add Like Mixed Numbers  Add Mixed Numbers: Same Sign  Add Unlike Mixed Numbers  One Take Fraction
Course Topic	Add: Common Denominator  Add Like Fractions  Add Unlike Fractions  Add: No Common Denominator  Add Like Mixed Numbers  Add Mixed Numbers: Same Sign  Add Unlike Mixed Numbers  One Take Fraction  Subtract: Common Denominator
Course Topic	Add: Common Denominator Add Like Fractions Add Unlike Fractions Add: No Common Denominator Add Like Mixed Numbers Add Mixed Numbers: Same Sign Add Unlike Mixed Numbers One Take Fraction Subtract: Common Denominator Subtract Like Fractions
Course Topic	Add: Common Denominator  Add Like Fractions  Add Unlike Fractions  Add: No Common Denominator  Add Like Mixed Numbers  Add Mixed Numbers: Same Sign  Add Unlike Mixed Numbers  One Take Fraction  Subtract: Common Denominator  Subtract Like Fractions  Subtract Unlike Fractions
Course Topic	Add: Common Denominator Add Like Fractions Add Unlike Fractions Add: No Common Denominator Add Like Mixed Numbers Add Mixed Numbers: Same Sign Add Unlike Mixed Numbers One Take Fraction Subtract: Common Denominator Subtract Like Fractions Subtract Unlike Fractions Subtract: No Common Denominator
Course Topic	Add: Common Denominator Add Like Fractions Add Unlike Fractions Add: No Common Denominator Add Like Mixed Numbers Add Mixed Numbers: Same Sign Add Unlike Mixed Numbers One Take Fraction Subtract: Common Denominator Subtract Like Fractions Subtract Unlike Fractions Subtract: No Common Denominator Subtract Like Mixed Numbers
Course Topic	Add: Common Denominator Add Like Fractions Add Unlike Fractions Add: No Common Denominator Add Like Mixed Numbers Add Mixed Numbers: Same Sign Add Unlike Mixed Numbers One Take Fraction Subtract: Common Denominator Subtract Like Fractions Subtract Unlike Fractions Subtract: No Common Denominator Subtract Like Mixed Numbers Subtract Like Mixed Numbers Subtract Like Mixed Numbers Subtract Mixed Numbers: Renaming
Course Topic	Add: Common Denominator Add Like Fractions Add Unlike Fractions Add: No Common Denominator Add Like Mixed Numbers Add Mixed Numbers: Same Sign Add Unlike Mixed Numbers One Take Fraction Subtract: Common Denominator Subtract Like Fractions Subtract Unlike Fractions Subtract: No Common Denominator Subtract Like Mixed Numbers

Students will be expected to demonstrate an understanding of addition and		
subtraction of integers, concretely, pictorially, and symbolically.		
Skill Quests	Skills	
Understand integers	Investigating integers	
	Comparing & ordering integers	
	Understanding opposites in context	
Add & subtract integers	Adding & subtracting negative integers	
	Adding & subtracting integers, word problems	

	Adding integers with two-coloured counters
	Adding & subtracting integers on a number line
	Adding integers
	Subtracting integers
	Adding & subtracting integers, order of operations
Course Topic	Activities Title
Integers	Adding Integers: Positive, Negative or Zero
	Add Integers
	Subtract Integers
	Integers: Subtraction
	Integers: Add and Subtract
	Negative or Positive
	More with Integers

Students will be expected to compare, order, and position positive fractions, positive decimals (to thousandths), and whole numbers by using benchmarks, place value, and equivalent fractions and/or decimals.

CC	quivalent fractions ana/or decimals.
Skill Quests	Skills
Compare & order fractions & decimals	Ordering fractions & decimals on a number line
	Identifying a number between 2 given numbers
	Comparing & ordering proper fractions
	Ordering terminating & repeating decimals
Course Topic	Activities Title
Order fractions & decimals	Identifying Fractions on a Number Line
	Counting with Fractions on a Number Line
	Equivalent Fractions on a Number Line 1
	Mixed and Improper Fractions on a Number Line
	Comparing Fractions 1
	Compare Fractions 1a
	Compare Fractions 2
	Comparing Fractions 2
	Ordering Fractions 1
	Decimals on the Number Line
	Decimal Order 1
	Decimal Order 2
	Comparing Decimals 1
	Comparing Decimals

### 2 Patterns and Relations

## 2.1 Students will be expected to use patterns to describe the world and to solve problems.

Students will be expected to demonstrate an understanding of oral and written		
patterns and their equivalent linear relations.		
Skill Quests	Skills	
Patterns & linear relations	Representing written patterns as linear relations	
Course Topic	Activities Title	
Patterns, Tables & Graphs	Pick the Next Number	
	Describing patterns	

Students will be expected to create a table of values from a linear relation, graph the table of values, and analyze the graph to draw conclusions and solve problems.		
Skill Quests	Skills	
Discrete linear relations	Graphing discrete linear relations using a table	
	Matching graphs & linear relations	
	Creating tables of values for linear relations	
Course Topic	Activities Title	
Course Topic Patterns, Tables & Graphs	Activities Title Pattern Rules and Tables	
	Pattern Rules and Tables	
	Pattern Rules and Tables Find the Pattern Rule	

### 2.2 Students will be expected to represent algebraic expressions in multiple ways.

Students will be expected to demonstrate an understanding of preservation of		
equality by: modelling preservation of equality, concretely, pictorially, and symbolically		
applying preservation of equality to solve equations		
Skill Quests	Skills	
Preservation of equality	Understanding the preservation of equality	
	Equivalent forms of equations	
	Solving 1-step equations using a balance	
Course Topic	Activities Title	
Solving equations &	Missing Values	
substitution	Missing Numbers: Variables	

Students will be expected to explain the difference between an expression and an	
equation.	
Skill Quests	Skills
Expressions & equations	Distinguishing between expressions & equations
	Identifying parts of expressions & equations

Course Topic	Activities Title
Teacher directed	Teacher directed

Students will be expected to evaluate an expression given the value of the variable(s).	
Skill Quests	Skills
Evaluate an expression	Evaluating expressions using substitution
Course Topic	Activities Title
Solving equations &	Simple Substitution 1
substitution	Simple Substitution 2
	Simple Substitution 3
	Checking solutions
	Complex Substitution

Students will be expected to model and solve, concretely, pictorially, and symbolically, problems that can be represented by one-step linear equations of the form x + a = b, where a and b are integers.

Skill Quests	Skills
Linear equations, integers	Solving linear equations with integers
	Modeling & solving 1-step equations, algebra tiles
	Solving 1-step equations
Course Topic	Activities Title
Solving equations &	Solve Equations: Add. Subtract 1
substitution	Solving One-Step Equations
	Solving Simple Equations
	Writing Equations

Students will be expected to model and solve, concretely, pictorially, and symbolically, where a, b and c are whole numbers, problems that can be represented by linear equations of the form: ax + b = c; ax = b; ax = b, ax = d Skill Quests

Skill Quests	SKIIIS
Linear equations, whole	Solving 2-step equations
numbers	Modeling & solving 2-step equations, algebra tiles
	Modeling real-life scenarios using equations
	Checking solutions of 2-step equations
Course Topic	Activities Title
Solving equations &	Solving One-Step Equations
substitution	Solving Simple Equations
	Find the Mistake
	Writing Equations

### 3 Measurement

### 3.1 Students will be expected to use direct and indirect measurement to solve problems.

Students will be expected to demonstrate an understanding of circles by: describing the relationships among radius, diameter, and circumference, relating circumference to pi, determining the sum of the central angles, constructing circles with a given radius or diameter, solving problems involving the radii, diameters, and circumferences of circles.

Skill Quests	Skills
Circles	Introducing the parts of a circle
	Introducing circumference
	Finding the circumference of circles
	Determining sum of the central angles of a circle
Course Topic	Activities Title
Circles & circumference	Identify Parts of Circles 1
	Circle Terms
	Circumference: Circles
	Perimeter and Circles

Students will be expected to develop and apply a formula for determining the area of	
triangles, parallelograms, and circles.	
Skill Quests	Skills
Determine the area	Determining the area of a triangle
	Determining the area of a parallelogram
	Determining the area of a circle
Course Topic	Activities Title
Area	Area: Triangles
	Area: Parallelograms (Metric)
	Area: Circles 1

### 4 Geometry

## 4.1 Students will be expected to describe and analyze position and motion of objects and shapes.

Students will be expected to identify and plot points in the four quadrants of a Cartesian plane, using integral ordered pairs.	
Skill Quests	Skills
The Cartesian plane	Introducing Cartesian coordinates
	Drawing shapes on the coordinate plane
Course Topic	Activities Title
Cartesian plane	Coordinate Graphs: 1st Quadrant
	Ordered Pairs

### **5 Statistics and Probability**

### 5.1 Students will be expected to collect, display, and analyze data to solve problems.

Students will be expected to demonstrate an understanding of central tendency and range by: determining the measures of central tendency (mean, median, mode) and range, determining the most appropriate measures of central tendency to report findings Skill Quests Skills Measures of central Mean tendency & range Median Mode Range Choosing statistical measures for data **Activities Title Course Topic** Collect, display & analyze Finding the Average data Mean Mean from Frequency Table Mode Mode from Frequency Table Stem and Leaf Plots: Concept Mode from Stem and Leaf Plot Median Median from Frequency Median from Stem and Leaf Plot Which measure of Central Tendency? Stem and Leaf Plots with Range Data extremes and range

Students will be expected to determine the effect on the mean, median, and mode	
when an outlier is included in a data set.	
Skill Quests	Skills
Investigate outliers	Investigating the effect of outliers
Course Topic	Activities Title
Teacher directed	Teacher directed

Students will be expected to construct, label, and interpret circle graphs to solve problems.	
Skill Quests	Skills
Circle graphs	Interpreting & constructing circle graphs
Course Topic	Activities Title
Collect, display & analyze	Circle Graphs
data	Sector Graph Calculations
	Sector Graph Angles
	Creating a Sector Graph

## 5.2 Students will be expected to use experimental or theoretical probabilities to represent and solve problems involving uncertainty.

Students will be expected to express probabilities as ratios, fractions, and percents.	
Skill Quests	Skills
Probability: decimal, fraction, percent	Probability: decimals, fractions & percents
Course Topic	Activities Title
Probability	Dice and Coins
	Complementary Events
	Relative Frequency
	Probability Tables
	Probability – Replacement
	Probability - No Replacement
	Tree Diagrams
	Two-way Table Probability

·	ted to conduct a probability experiment to compare the
theoretical probability (	determined using a tree diagram, table, or other graphic
organizer) and experimental probability of two independent events.	
Skill Quests	Skills
Theoretical & experimental	Understanding independent events
probability	Determining theoretical probability, tree diagrams
	Exploring fair games
Course Topic	Activities Title
Teacher directed	Teacher directed

### Grade 8

### 1 Number

### 1.1 Students will be expected to develop number sense.

Students will be expected to demonstrate an understanding of perfect squares and square	
roots, concretely, pictorially, and symbolically (limited to whole numbers).	
Skill Quests	Skills
Squares & square roots	Perfect squares
	Finding square roots
Course Topic	Activities Title
Square roots	Square Roots

Students will be expected to determine the approximate square root of numbers that are	
not perfect squares (limited to whole numbers).	
Skill Quests	Skills
Estimate square roots	Estimating square roots
Course Topic	Activities Title
Square roots	Estimate Square Roots

Students will be expected to demonstrate an understanding of and solve problems involving percents greater than or equal to 0%.	
Skill Quests	Skills
Percents greater than or	Percents greater than 100%
equal to 0%	Converting percents to fractions & mixed numbers
	Converting percents to decimals
	Solving problems involving consecutive percents
	Increasing & decreasing amounts by percents
	Solving problems involving combined percents
Course Topic	Activities Title
Percents	Percent of a Number (Mental)
	Percent Increase and Decrease
	Percentage Composition
	Solve Percent Equations
	Percentage Word Problems
	Percentages of a quantity (>100%)
	Decimal to Percentage
	Percents and Decimals
	Percentage to Fraction
	Fractions to Percentages (Non-Calculator)
	Decimals to Fractions 2
	Fraction to Terminating Decimal
	Fractions to Decimals 2

Students will be expected to demonstrate an understanding of ratio and rate.	
Skill Quests	Skills
Understand ratio & rate	Unit rate
	Introduction to ratios
Course Topic	Activities Title
Ratio & rates	Equivalent Ratios
	Ratio
	Ratios
	Solve Proportions
	Simplify Ratios: 2 Whole Numbers
	Simplify Ratios: 3 Whole Numbers
	Simplify Ratios: Mixed Numbers
	Dividing a Quantity in a Ratio
	Travel Graphs
	Average Speed
	Distance Travelled
	Time Taken
	Rates

Students will be expected to solve problems that involve rates, ratios, and proportional	
reasoning.	
Skill Quests	Skills
Rates, ratios & proportional	Simplifying & comparing rates
reasoning	Solving rate problems
	Dividing a quantity in a given ratio
	Solving ratio problems
	Solving proportions problems
Course Topic	Activities Title
Ratio & rates	Ratio and Proportion
	Proportional Relationships
	Ratio Word Problems
	Best Buy
	Rate Word Problems
	Rates Calculations
	Converting Rates

Students will be expected to demonstrate an understanding of multiplying and	
dividing positive fractions and mixed numbers, concretely, pictorially, and symbolically.	
Skill Quests	Skills
Multiply fractions & mixed	Multiplying unit fractions by whole numbers
numbers	Multiplying proper fractions by whole numbers
	Multiplying mixed numbers by whole numbers
	Multiplying fractions
	Multiplying mixed numbers

Divide fractions & mixed	Dividing fractions & whole numbers
numbers	Dividing fractions
	Dividing whole numbers & mixed numbers
	Dividing mixed numbers & fractions
	Dividing mixed numbers
	Dividing fractions, word problems
Course Topic	Activities Title
Multiply & divide fractions	Model fractions to multiply
	Multiply Fraction by Fraction
	Multiply Two Fractions 1
	Converting Mixed and Improper
	Multiply Mixed Numbers
	Divide by a Unit Fraction
	Divide Whole Number by Fraction
	Divide Fractions Visual Model
	Divide Fractions by Fractions 1
	Divide Mixed Numbers

Students will be expected to demonstrate an understanding of multiplication and	
division of integers, concretely, pictorially, and symbolically.	
Skill Quests	Skills
Multiply & divide integers	Multiplying integers using models
	Multiplying integers
	Dividing integers using models
	Dividing integers
	Multiplying & dividing integers
Course Topic	Activities Title
Multiply & divide integers	Multiplying and Dividing Integers
	Integers: Multiply and Divide
	Integers: Order of Operations (BEDMAS)
	Powers of Integers

### 2 Patterns and Relations

## 2.1 Students will be expected to use patterns to describe the world and to solve problems.

Students will be expected to graph and analyze two-variable linear relations.	
Skill Quests	Skills
Linear relations	Graphing discrete linear relations
	Identifying an equation from a discrete linear graph
Course Topic	Activities Title
Patterns, Tables & Graphs	Graphing from a Table of Values 2
	Pattern Rules and Tables
	Find the Pattern Rule
	Reading Values from a Line
	y=ax
	Equation of a Line 1
	Determining a Rule for a Line
	Intercepts
	Which Straight Line?

### 2.2 Students will be expected to represent algebraic expressions in multiple ways.

Students will be expected to model and solve problems, concretely, pictorially, and	
symbolically, where a, b, and c are integers, using linear equations of the form: $ax = b$ ;	
$x/a = b$ , $a \ne 0$ ; $ax + b = c$ ; $x/a + b = c$ , $a \ne 0$ ; $a(x + b) = c$	
Skill Quests	Skills
Linear equations, integers	Solving 1-step linear equations, add & subtract
	Solving 1-step linear equations, multiply & divide
	Solving 1-step linear equations, mixed operations
	Modelling & solving 2-step linear equations
	Solving 2-step linear equations, mixed operations
	Solving linear equations, distributive property
	Solving linear equation word problems
	Checking solutions using substitution
Course Topic	Activities Title
Solving equations	Solve Equations: Add, Subtract 2
	Solve Equations: Multiply, Divide 2
	Solving One-Step Equations
	Solving Simple Equations
	Find the Mistake
	Writing Equations

### 3 Measurement

## 3.1 Students will be expected to use direct or indirect measurement to solve problems.

Students will be expected to develop and apply the Pythagorean theorem to solve problems.	
Skill Quests	Skills
Pythagorean theorem	Identifying the sides of a right triangle
	Pythagorean theorem proof & converse
	Finding the length of the missing side, hypotenuse
	Finding the length of the missing side, short side
	Finding the length of the missing side
	Matching right triangles to word problems
	Identifying Pythagorean triples
Course Topic	Activities Title
Pythagorean theorem	Hypotenuse, Adjacent, Opposite
	Pythagorean Theorem
	Pythagoras' Theorem
	Pythagorean Triads
	Hypotenuse of a Right Triangle
	Pythagoras: Find a short side (integers only)
	Pythagoras: Find a short side (rounding needed)
	Pythagoras: Find a short side (decimal values)
	Find Slant Height
	Pythagoras and Perimeter

Students will be expected to draw and construct nets for 3-D objects.	
Skill Quests	Skills
Nets of 3-D objects	Connecting prisms with their nets
	Connecting 3-D objects with their nets
Course Topic	Activities Title
Nets & Surface area	Nets

Students will be expected to determine the surface area of right rectangular prisms, right triangular prisms, and right cylinders to solve problems.		
Skill Quests	Skills	
Surface area	Finding the surface area of rectangular prisms	
	Finding the surface area of triangular prisms	
	Finding the surface area of cylinders	
Course Topic	Activities Title	
Nets & Surface area	Surface Area: Rectangular Prisms 1	
	Surface Area: Triangular Prisms 1	
	Surface Area: Cylinders	

Students will be expected to develop and apply formulas for determining the volume of right rectangular prisms, right triangular prisms, and right cylinders.		
Skill Quests	Skills	
Volume	Finding the volume of cubes & rectangular prisms	
	Finding the volume of triangular prisms	
	Finding the volume of cylinders	
	Solving volume problems, right prisms & cylinders	
Course Topic	Activities Title	
Volume	Volume: Prisms	
	Volume: Cuboid 2	
	Volume: Rectangular Prisms 2	
	Volume: Triangular Prisms	
	Volume: Cylinders	

### 4 Geometry

4.1 Students will be expected to describe the characteristics of 3-D objects and 2-D shapes and analyze the relationships among them.

Students will be expected to draw and interpret top, front, and side views of 3-D		
objects composed of right rectangular prisms.		
Skill Quests	Skills	
Top, front & side views of	Drawing top, front & side views of 3-D objects	
3-D objects		
Course Topic	Activities Title	
Teacher directed	Teacher directed	

### **5 Statistics and Probability**

## 5.1 Students will be expected to collect, display, and analyze data to solve problems.

Students will be expected to critique ways in which data is presented.		
Skill Quests	Skills	
Critique data displays	Critiquing data displays	
Course Topic	Activities Title	
Critique data displays	Data Types	
	Grouped Frequency	
	Histograms	
	Histograms for Grouped Data	
	Double Stem and Leaf Plots	
	Step Graphs	



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