# The Ontario Curriculum: Mathematics, 2020 

 Mathletics Curriculum Alignment Crosswalk

Grades 1 - 8

## Introduction

## Mathletics

At Mathletics, we are committed to providing students, teachers, schools and districts with high-quality learning resources that align with the most up-todate curricula.

Our team of educational publishers has created this alignment document between Mathletics Ontario courses and the Ontario Curriculum: Mathematics 2020 for Grades 1-8. Courses consist of topics based on strands, including general and specific expectations.

When a standard is best addressed by teacher directed activities, it is indicated in this document.

This document outlines the expectations for the Ontario Curriculum:
Mathematics and acts as a useful curriculum crosswalk guide when using Mathletics in your school.

## 3P Learning Canada

October 2020

| Strand | Substrand/Topic | Specific Expectation | 图 Topic/Activities |
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| Strand | Substrand/Topic | Specific Expectation | 国 Topic/Activities |
| :---: | :---: | :---: | :---: |
| B. Number | B2. Operations: Addition and Subtraction | B2.4 use objects, diagrams, and equations to represent, describe, and solve situations involving addition and subtraction of whole numbers that add up to no more than 50 | Number Sense and Numeration 3 <br> - 1 more, 2 less <br> - Doubles and Halves to 10 <br> - Doubles and Halves to 20 <br> - Doubles and Near Doubles <br> - Model Addition <br> - Model Subtraction <br> - Addition Facts <br> - Subtraction Facts to 18 <br> - All about Ten <br> - All about Twenty <br> - Related Facts 1 <br> - Adding to 10 Word Problems <br> - Add and Subtract Problems |
| B. Number | B2. Operations: Multiplication and Division | B2.5 represent and solve equal-group problems where the total number of items is no more than 10 , including problems in which each group is a half, using tools and drawings | Teacher directed |
| C. Algebra | C1. Patterns and Relationships: Patterns | C1.1 identify and describe the regularities in a variety of patterns, including patterns found in real-life contexts | Teacher directed |
| C. Algebra | C1. Patterns and Relationships: Patterns | C1.2 create and translate patterns using movements, sounds, objects, shapes, letters, and numbers | Teacher directed |
| C. Algebra | C1. Patterns and Relationships: Patterns | C1.3 determine pattern rules and use them to extend patterns, make and justify predictions, and identify missing elements in patterns | Patterning and Algebra <br> - Missing it! <br> - Color Patterns <br> - Simple Patterns <br> Geometry and Spatial Sense <br> - Complete the Pattern |
| C. Algebra | C1. Patterns and Relationships: Patterns | C1.4 create and describe patterns to illustrate relationships among whole numbers up to 50 | Teacher directed |
| C. Algebra | C2. Equations and Inequalities: Variables | C2.1 identify quantities that can change and quantities that always remain the same in real-life contexts | Teacher directed |
| C. Algebra | C2. Equations and Inequalities: Equalities and Inequalities | C2.2 determine whether given pairs of addition and subtraction expressions are equivalent or not | Teacher directed |
| C. Algebra | C2. Equations and Inequalities: Equalities and Inequalities | C2.3 identify and use equivalent relationships for whole numbers up to 50, in various contexts | Patterning and Algebra <br> - Composing Numbers to 10 <br> Number Sense and Numeration 1 <br> - Composing Additions to 20 |
| C. Algebra | C3. Coding: Coding Skills | C3.1 solve problems and create computational representations of mathematical situations by writing and executing code, including code that involves sequential events | Teacher directed |
| C. Algebra | C3. Coding: Coding Skills | C3.2 read and alter existing code, including code that involves sequential events, and describe how changes to the code affect the outcomes | Teacher directed |


| Strand | Substrand/Topic | Specific Expectation | 国 Topic/Activities |
| :---: | :---: | :---: | :---: |
| D. Data | D1. Data Literacy: Data Collection and Organization | D1.1 sort sets of data about people or things according to one attribute, and describe rules used for sorting | Teacher directed |
| D. Data | D1. Data Literacy: Data Collection and Organization | D1.2 collect data through observations, experiments, and interviews to answer questions of interest that focus on a single piece of information; record the data using methods of their choice; and organize the data in tally tables | Teacher directed |
| D. Data | D1. Data Literacy: Data Visualization | D1.3 display sets of data, using one-to-one correspondence, in concrete graphs and pictographs with proper sources, titles, and labels | Teacher directed |
| D. Data | D1. Data Literacy: Data Analysis | D1.4 order categories of data from greatest to least frequency for various data sets displayed in tally tables, concrete graphs, and pictographs | Data Management and Probability <br> - Picture Graphs: More or Less <br> - Picture Graphs: Who has the Goods? |
| D. Data | D1. Data Literacy: Data Analysis | D1.5 analyse different sets of data presented in various ways, including in tally tables, concrete graphs, and pictographs, by asking and answering questions about the data and drawing conclusions, then make convincing arguments and informed decisions | Data Management and Probability <br> - Read Graphs <br> - Add and Subtract Using Graphs <br> - Tallies |
| D. Data | D2. Probability: Probability | D2.1 use mathematical language, including the terms "impossible", "possible", and "certain", to describe the likelihood of events happening, and use that likelihood to make predictions and informed decisions | Data Management and Probability <br> - Will it Happen? |
| D. Data | D2. Probability: Probability | D2.2 make and test predictions about the likelihood that the categories in a data set from one population will have the same frequencies in data collected from a different population of the same size | Teacher directed |
| E. Spatial Sense | E1. Geometric and Spatial Reasoning: Geometric Reasoning | E1.1 sort three-dimensional objects and twodimensional shapes according to one attribute at a time, and identify the sorting rule being used | Geometry and Spatial Sense <br> - Count Sides and Corners |
| E. Spatial Sense | E1. Geometric and Spatial Reasoning: Geometric Reasoning | E1.2 construct three-dimensional objects, and identify two-dimensional shapes contained within structures and objects | Geometry and Spatial Sense <br> - Relate Shapes and Solids |
| E. Spatial Sense | E1. Geometric and Spatial Reasoning: Geometric Reasoning | E1.3 construct and describe two-dimensional shapes and three-dimensional objects that have matching halves | Teacher directed |
| E. Spatial Sense | E1. Geometric and Spatial Reasoning: Location and Movement | E1.4 describe the relative locations of objects or people, using positional language | Geometry and Spatial Sense <br> - Where is it? <br> - Left or Right? |
| E. Spatial Sense | E1. Geometric and Spatial Reasoning: Location and Movement | E1.5 give and follow directions for moving from one location to another | Geometry and Spatial Sense <br> - Following Directions |

Mathletics

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| :--- | :--- | :--- | :--- |
| E. Spatial Sense | E2. Measurement: <br> Attributes | E2.1 identify measurable attributes of two- <br> dimensional shapes and three-dimensional objects, <br> including length, area, mass, capacity, and angle | Teacher directed |
| E. Spatial Sense | E2. Measurement: <br> Attributes | E2.2 compare several everyday objects and <br> order them according to length, area, mass, and <br> capacity | Measurement <br> chilling Fast! <br> - Which Holds More? <br> -Compare Length |
| E. Spatial Sense | E2. Measurement: <br> Time | E2.3 read the date on a calendar, and use a <br> calendar to identify days, weeks, months, <br> holidays, and seasons | Measurement <br> - Using a Calendar |
| F. Financial <br> Literacy | F1. Money and <br> Finances: Money <br> Concepts | F1.1 identify the various Canadian coins up to 50¢ <br> and coins and bills up to \$50, and compare their <br> values | Teacher directed |

## Additional activities within other grades to support learning in Grade 1

Number Sense and Numeration 1

- Adding to Make 5 and 10
- Everyday Money
- Halves
- Halves and Quarters


## Number Sense and Numeration 2

- Count by Tens
- Count by 2s, 5s and 10s
- Skip Counting with coins
- Ordinal Numbers
- 1st to 31st


## Measurement

- Measuring Length with Blocks
- Equal Areas
- How Full?
- Set Time to the Hour
- Set Time to the Half Hour
- Months After and Before
- Hot or Cold?


## Geometry and Spatial Sense

- Collect the Shapes
- Collect the Objects
- Match the Object
- Match the Solid 1
- Symmetry

Patterning and Algebra

- Balancing Act
- Balancing Objects

Data Management and Probability

- Sort It
- Making Picture Graphs: With Scale

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| :---: | :---: | :---: | :---: |
| B. Number | B1. Number Sense: Whole Numbers | B1.1 read, represent, compose, and decompose whole numbers up to and including 200, using a variety of tools and strategies, and describe various ways they are used in everyday life | Number Sense and Numeration 1 <br> - Matching Numbers to 20 <br> - Place Value 1 <br> - Making Big Numbers Count <br> - Repartition Two-digit Numbers <br> - Number Lines |
| B. Number | B1. Number Sense: Whole Numbers | B1.2 compare and order whole numbers up to and including 200, in various contexts | Number Sense and Numeration 1 <br> - Number Line Order <br> - Compare Numbers to 100 <br> - Greater or Less to 100 |
| B. Number | B1. Number Sense: Whole Numbers | B1.3 estimate the number of objects in collections of up to 200 and verify their estimates by counting | Teacher directed |
| B. Number | B1. Number Sense: Whole Numbers | B1.4 count to 200, including by $20 \mathrm{~s}, 25$ s, and 50 s, using a variety of tools and strategies | Number Sense and Numeration 2 <br> - Going Up <br> - Count by Twos <br> - Count by Fives <br> - Count by Tens <br> - Skip Counting with Coins <br> - Counting on a 100 Grid <br> Patterning and Algebra <br> - Count Forward Patterns <br> - Count Backward Patterns |
| B. Number | B1. Number Sense: Whole Numbers | B1.5 describe what makes a number even or odd | Teacher directed |
| B. Number | B1. Number Sense: Fractions | B1.6 use drawings to represent, solve, and compare the results of fair-share problems that involve sharing up to 10 items among 2, 3, 4, and 6 sharers, including problems that result in whole numbers, mixed numbers, and fractional amounts | Teacher directed |
| B. Number | B. Number | B1.7 recognize that one third and two sixths of the same whole are equal, in fair-sharing contexts | Teacher directed |
| B. Number | B2. Operations: Properties and Relationships | B2.1 use the properties of addition and subtraction, and the relationships between addition and multiplication and between subtraction and division, to solve problems and check calculations | Patterning and Algebra <br> - Commutative Property of Addition <br> - Adding In Any Order |
| B. Number | B2. Operations: Math Facts | B2.2 recall and demonstrate addition facts for numbers up to 20, and related subtraction facts | Number Sense and Numeration 3 <br> - Addition <br> - Addition Facts <br> - Subtraction Facts to 18 <br> - Simple Subtraction |
| B. Number | B2. Operations: Mental Math | B2.3 use mental math strategies, including estimation, to add and subtract whole numbers that add up to no more than 50, and explain the strategies used | Number Sense and Numeration 3 <br> - Addition <br> - Simple Subtraction |


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| C. Algebra | C3. Coding: Coding Skills | C3.2 read and alter existing code, including code that involves sequential and concurrent events, and describe how changes to the code affect the outcomes | Teacher directed |
| D. Data | D1. Data Literacy: Data Collection and Organization | D1.1 sort sets of data about people or things according to two attributes, using tables and logic diagrams, including Venn and Carroll diagrams | Teacher directed |
| D. Data | D1. Data Literacy: Data Collection and Organization | D1.2 collect data through observations, experiments, and interviews to answer questions of interest that focus on two pieces of information, and organize the data in two-way tally tables | Teacher directed |
| D. Data | D1. Data Literacy: Data Visualization | D1.3 display sets of data, using one-to-one correspondence, in concrete graphs, pictographs, line plots, and bar graphs with proper sources, titles, and labels | Teacher directed |
| D. Data | D1. Data Literacy: Data Analysis | D1.4 identify the mode(s), if any, for various data sets presented in concrete graphs, pictographs, line plots, bar graphs, and tables, and explain what this measure indicates about the data | Teacher directed |
| D. Data | D1. Data Literacy: Data Analysis | D1.5 analyse different sets of data presented in various ways, including in logic diagrams, line plots, and bar graphs, by asking and answering questions about the data and drawing conclusions, then make convincing arguments and informed decisions | Data Management and Probability <br> - Pictographs <br> - Bar Graphs 1 <br> - Bar Graphs 2 <br> - Read Graphs <br> - Reading from a Bar Chart <br> - Tallies |
| D. Data | D2. Probability: Probability | D2.1 use mathematical language, including the terms "impossible", "possible", and "certain", to describe the likelihood of complementary events happening, and use that likelihood to make predictions and informed decisions | Data Management and Probability <br> - Will it Happen? <br> - Most Likely and Least Likely <br> - What are the Chances? |
| D. Data | D2. Probability: Probability | D2.2 make and test predictions about the likelihood that the mode(s) of a data set from one population will be the same for data collected from a different population | Teacher directed |
| E. Spatial Sense | E1. Geometric and Spatial Reasoning: Geometric Reasoning | E1.1 sort and identify two-dimensional shapes by comparing number of sides, side lengths, angles, and number of lines of symmetry | Geometry and Spatial Sense <br> - Collect Simple Shapes <br> - Collect More Shapes <br> - Count Sides and Corners <br> - Lines of Symmetry |
| E. Spatial Sense | E1. Geometric and Spatial Reasoning: Geometric Reasoning | E1.2 compose and decompose two-dimensional shapes, and show that the area of a shape remains constant regardless of how its parts are rearranged | Teacher directed |
| E. Spatial Sense | E1. Geometric and Spatial Reasoning: Geometric Reasoning | E1.3 identify congruent lengths and angles in twodimensional shapes by mentally and physically matching them, and determine if the shapes are congruent | Teacher directed |
| E. Spatial Sense | E1. Geometric and Spatial Reasoning: Location and Movement | E1.4 create and interpret simple maps of familiar places | Teacher directed |


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| E. Spatial Sense | E1. Geometric and <br> Spatial Reasoning: <br> Location and <br> Movement | E1.5 describe the relative positions of several <br> objects and the movements needed to get from <br> one object to another | Teacher directed |
| E. Spatial Sense | E2. Measurement: <br> Length | E2.1 choose and use non-standard units <br> appropriately to measure lengths, and describe <br> the inverse relationship between the size of a unit <br> and the number of units needed | Teacher directed |
| E. Spatial Sense | E2. Measurement: <br> Length | E2.2 explain the relationship between centimetres <br> and metres as units of length, and use <br> benchmarks for these units to estimate lengths | Teacher directed |
| E. Spatial Sense | E2. Measurement: <br> Length | E2.3 measure and draw lengths in centimetres <br> and metres, using a measuring tool, and recognize <br> the impact of starting at points other than zero | Measurement |
| E. Spatial Sense | E2. Measurement: <br> Time | E2.4 use units of time, including seconds, minutes, <br> hours, and non-standard units, to describe the <br> duration of various events | Teacher directed |
| F. Financial | F1. Money and <br> Finances: Money <br> Concepts | F1.1 identify different ways of representing the <br> same amount of money up to Canadian 200¢ <br> using various combinations of coins, and up to <br> $\$ 200 ~ u s i n g ~ v a r i o u s ~ c o m b i n a t i o n s ~ o f ~ \$ 1 ~ a n d ~ \$ 2 ~$ | Teacher directed |
| Literacy | Toins and \$5, \$10, \$20, \$50, and \$100 bills |  |  |

## Additional activities within other grades to support learning in Grade 2

## Number Sense and Numeration 1

- Nearest 10?
- Shade Fractions
- Model Fractions
- Halves
- Halves and Quarters
- Uneven partitioned shapes 1
- Compare Fractions la

Number Sense and Numeration 3

- Dividing Twos
- Dividing Threes
- Dividing Fours
- Dividing Fives


## Measurement

- Measuring Length with Blocks
- Equal Areas
- Bigger or Smaller Shape
- Filling Fast!
- Everyday Mass
- Days of the Week
- Months of the Year

Geometry and Spatial Sense

- How Many Faces?
- How many Edges?
- How many Corners?
- Collect the Objects
- Symmetry
- Following Directions

Data Management and
Probability

- Sorting Data
- Making Picture Graphs: With Scale
- Introductory Probability

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| :---: | :---: | :---: | :---: |
| B. Number | Number Sense: Whole Numbers | B1.1 read, represent, compose, and decompose whole numbers up to and including 1000, using a variety of tools and strategies, and describe various ways they are used in everyday life | Number Sense and Numeration 1-2 <br> - Reading Numbers to 30 <br> - Model Numbers <br> - Understanding Place Value 1 <br> - Place Value 2 <br> - Place Value Partitioning |
| B. Number | B1. Number Sense: Whole Numbers | B1.2 compare and order whole numbers up to and including 1000, in various contexts | Number Sense and Numeration 1-2 <br> - Which is Smaller? <br> - Which is Bigger? |
| B. Number | B1. Number Sense: Whole Numbers | B1.3 round whole numbers to the nearest ten or hundred, in various contexts | Number Sense and Numeration 1-2 <br> - Nearest 10? |
| B. Number | B1. Number Sense: Whole Numbers | B1.4 count to 1000 , including by 50 s, 100 s, and 200 s, using a variety of tools and strategies | Number Sense and Numeration 1-2 <br> - Count by Twos <br> - Count by Fives <br> - Count to Tens <br> - Count by 2 s , 5 s and 10 s <br> - Counting on a 100 grid |
| B. Number | B1. Number Sense: Whole Numbers | B1.5 use place value when describing and representing multi-digit numbers in a variety of ways, including with base ten materials | Number Sense and Numeration 1-2 <br> - Understanding Place Value 1 <br> - Place Value 2 <br> - Place Value to Thousands <br> - Model Numbers |
| B. Number | B1. Number Sense: Fractions | B1.6 use drawings to represent, solve, and compare the results of fair-share problems that involve sharing up to 20 items among 2, 3, 4, 5, 6, 8 , and 10 sharers, including problems that result in whole numbers, mixed numbers, and fractional amounts | Number Sense and Numeration 1-2 <br> - Partition into Equal Parts <br> Number Sense and Numeration 3B <br> - Making Equal Groups <br> - Fill the Jars <br> - Dividing Twos |
| B. Number | B1. Number Sense: Fractions | B1.7 represent and solve fair-share problems that focus on determining and using equivalent fractions, including problems that involve halves, fourths, and eighths; thirds and sixths; and fifths and tenths | Teacher directed |
| B. Number | B2. Operations: Properties and Relationships | B2.1 use the properties of operations, and the relationships between multiplication and division, to solve problems and check calculations | Patterning and Algebra <br> - Addition Properties |
| B. Number | B2. Operations: Math Facts | B2.2 recall and demonstrate multiplication facts of 2,5 , and 10 , and related division facts | Number Sense and Numeration 3B <br> - Groups of Two <br> - Groups of Five <br> - Dividing Twos <br> - Dividing Fives |
| B. Number | B2. Operations: Mental Math | B2.3 use mental math strategies, including estimation, to add and subtract whole numbers that add up to no more than 1000, and explain the strategies used | Number Sense and Numeration 3A <br> - Mental Addition <br> - Mental Subtraction <br> - Add 3 Numbers: Bonds to Multiples of 10 <br> - Add 3 Numbers: Bonds to 100 <br> - Estimate Differences |
| B. Number | B2. Operations: Addition and Subtraction | B2.4 demonstrate an understanding of algorithms for adding and subtracting whole numbers by making connections to and describing the way other tools and strategies are used to add and subtract | Teacher directed |


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| B. Number | B2. Operations: Addition and Subtraction | B2.5 represent and solve problems involving the addition and subtraction of whole numbers that add up to no more than 1000, using various tools and algorithms | Number Sense and Numeration 3A <br> - Add 3-Digit Numbers <br> - Add 3-Digit Numbers: Regroup <br> - 3-Digit Differences <br> 3-Digit Differences: 1 Regrouping <br> 3-Digit Differences: 2 Regroupings <br> 3-Digit Differences with Zeros |
| B. Number | B2. Operations: Multiplication and Division | B2.6 represent multiplication of numbers up to 10 $\times 10$ and division up to $100 \div 10$, using a variety of tools and drawings, including arrays | Number Sense and Numeration 3B <br> - Groups of Two <br> - Groups of Three <br> - Groups of Four <br> - Groups of Five <br> - Groups of Six <br> - Groups of Seven <br> - Arrays 1 <br> - Multiplication Arrays <br> - Model Multiplication to $5 \times 5$ <br> - Times tables <br> - Frog Jump Multiplication <br> - Dividing Twos <br> - Dividing Threes <br> - Dividing Fours <br> - Dividing Fives <br> - Dividing Sixes <br> - Dividing Sevens |
| B. Number | B2. Operations: Multiplication and Division | B2.7 represent and solve problems involving multiplication and division, including problems that involve groups of one half, one fourth, and one third, using tools and drawings | Number Sense and Numeration 3B <br> - Making Equal Groups <br> - Fill the Jars <br> - Dividing Twos |
| B. Number | B2. Operations: Multiplication and Division | B2.8 represent the connection between the numerator of a fraction and the repeated addition of the unit fraction with the same denominator using various tools and drawings, and standard fractional notation | Teacher directed |
| B. Number | B2. Operations: Multiplication and Division | B2.9 use the ratios of 1 to 2,1 to 5 , and 1 to 10 to scale up numbers and to solve problems | Teacher directed |
| C. Algebra | C1. Patterns and Relationships: Patterns | C1.1 identify and describe repeating elements and operations in a variety of patterns, including patterns found in real-life contexts | Patterning and Algebra <br> - Describing Patterns |
| C. Algebra | C1. Patterns and Relationships: Patterns | C1.2 create and translate patterns that have repeating elements, movements, or operations using various representations, including shapes, numbers, and tables of values | Teacher directed |
| C. Algebra | C1. Patterns and Relationships: Patterns | C1.3 determine pattern rules and use them to extend patterns, make and justify predictions, and identify missing elements in patterns that have repeating elements, movements, or operations | Patterning and Algebra <br> - Increasing Patterns <br> - Decreasing Patterns <br> - Pick the Next Number <br> - Simple Patterns <br> - Pattern Error <br> - Missing it! |
| C. Algebra | C1. Patterns and Relationships: Patterns | C1.4 create and describe patterns to illustrate relationships among whole numbers up to 1000 | Teacher directed |


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| C. Algebra | C2. Equations and Inequalities: Variables | C2.1 describe how variables are used, and use them in various contexts as appropriate | Teacher directed |
| C. Algebra | C2. Equations and Inequalities: Equalities and Inequalities | C2.2 determine whether given sets of addition, subtraction, multiplication, and division expressions are equivalent or not | Teacher directed |
| C. Algebra | C2. Equations and Inequalities: Equalities and Inequalities | C2.3 identify and use equivalent relationships for whole numbers up to 1000, in various contexts | Patterning and Algebra <br> - Missing Numbers <br> - Missing Values |
| C. Algebra | C3. Coding: Coding Skills | C3.1 solve problems and create computational representations of mathematical situations by writing and executing code, including code that involves sequential, concurrent, and repeating events | Teacher directed |
| C. Algebra | C3. Coding: Coding Skills | C3.2 read and alter existing code, including code that involves sequential, concurrent, and repeating events, and describe how changes to the code affect the outcomes | Teacher directed |
| D. Data | D1. Data Literacy: Data Collection and Organization | D1.1 sort sets of data about people or things according to two and three attributes, using tables and logic diagrams, including Venn, Carroll, and tree diagrams, as appropriate | Data Management and Probability - Sort It |
| D. Data | D1. Data Literacy: Data Collection and Organization | D1.2 collect data through observations, experiments, and interviews to answer questions of interest that focus on qualitative and quantitative data, and organize the data using frequency tables | Teacher directed |
| D. Data | D1. Data Literacy: Data Visualization | D1.3 display sets of data, using many-to-one correspondence, in pictographs and bar graphs with proper sources, titles, and labels, and appropriate scales | Data Management and Probability <br> - Making Picture Graphs: With Scale |
| D. Data | D1. Data Literacy: Data Analysis | D1.4 determine the mean and identify the mode(s), if any, for various data sets involving whole numbers, and explain what each of these measures indicates about the data | Data Management and Probability <br> - Mode |
| D. Data | D1. Data Literacy: Data Analysis | D1.5 analyse different sets of data presented in various ways, including in frequency tables and in graphs with different scales, by asking and answering questions about the data and drawing conclusions, then make convincing arguments and informed decisions | Data Management and Probability <br> - Interpreting Tables <br> - Pictographs <br> - Bar Graphs 1 <br> - Bar Graphs 2 |
| D. Data | D2. Probability: Probability | D2.1 use mathematical language, including the terms "impossible", "unlikely", "equally likely", "likely", and "certain", to describe the likelihood of events happening, and use that likelihood to make predictions and informed decisions | Teacher directed |
| D. Data | D2. Probability: Probability | D2.2 make and test predictions about the likelihood that the mean and the mode(s) of a data set will be the same for data collected from different populations | Teacher directed |


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| E. Spatial Sense | E1. Geometric and Spatial Reasoning: Geometric Reasoning | E1.1 sort, construct, and identify cubes, prisms, pyramids, cylinders, and cones by comparing their faces, edges, vertices, and angles | Geometry and Spatial Sense <br> - How Many Faces? <br> - How many Edges? <br> - How many Corners? <br> - Faces, Edges and Vertices |
| E. Spatial Sense | E1. Geometric and Spatial Reasoning: Geometric Reasoning | E1.2 compose and decompose various structures, and identify the two-dimensional shapes and three-dimensional objects that these structures contain | Geometry and Spatial Sense <br> - Relate Shapes and Solids |
| E. Spatial Sense | E1. Geometric and Spatial Reasoning: Geometric Reasoning | E1.3 identify congruent lengths, angles, and faces of three-dimensional objects by mentally and physically matching them, and determine if the objects are congruent | Teacher directed |
| E. Spatial Sense | E1. Geometric and Spatial Reasoning: Location and Movement | E1.4 give and follow multistep instructions involving movement from one location to another, including distances and half- and quarter-turns | Geometry and Spatial Sense <br> - Following Directions |
| E. Spatial Sense | E2. Measurement: Length, Mass, and Capacity | E2.1 use appropriate units of length to estimate, measure, and compare the perimeters of polygons and curved shapes, and construct polygons with a given perimeter | Measurement <br> - Perimeter <br> - Calculate Perimeter of Squares and Rectangles |
| E. Spatial Sense | E2. Measurement: Length, Mass, and Capacity | E2.2 explain the relationships between millimetres, centimetres, metres, and kilometres as metric units of length, and use benchmarks for these units to estimate lengths | Teacher directed |
| E. Spatial Sense | E2. Measurement: Length, Mass, and Capacity | E2.3 use non-standard units appropriately to estimate, measure, and compare capacity, and explain the effect that overfilling or underfilling, and gaps between units, have on accuracy | Teacher directed |
| E. Spatial Sense | E2. Measurement: Length, Mass, and Capacity | E2.4 compare, estimate, and measure the mass of various objects, using a pan balance and nonstandard units | Teacher directed |
| E. Spatial Sense | E2. Measurement: Length, Mass, and Capacity | E2.5 use various units of different sizes to measure the same attribute of a given item, and demonstrate that even though using differentsized units produces a different count, the size of the attribute remains the same | Teacher directed |
| E. Spatial Sense | E2. Measurement: Time | E2.6 use analog and digital clocks and timers to tell time in hours, minutes, and seconds | Measurement <br> - Five Minute Times |
| E. Spatial Sense | E2. Measurement: Area | E2.7 compare the areas of two-dimensional shapes by matching, covering, or decomposing and recomposing the shapes, and demonstrate that different shapes can have the same area | Measurement <br> - Equal Areas <br> - Bigger or Smaller Shape |
| E. Spatial Sense | E2. Measurement: Area | E2.8 use appropriate non-standard units to measure area, and explain the effect that gaps and overlaps have on accuracy | Measurement <br> - Equal Areas <br> - Bigger or Smaller Shape |


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| :--- | :--- | :--- | :--- |
| E. Spatial Sense | E2. Measurement: <br> Area | E2.9 use square centimetres $\left(\mathrm{cm}^{2}\right)$ and square <br> metres (m²) to estimate, measure, and compare <br> the areas of various two--limensional shapes, <br> including those with curved sides | Measurement <br> - Area of Shapes |
| F. Financial <br> Literacy | F1. Money and <br> Finances: Money <br> Concepts | F1.1 estimate and calculate the change required <br> for various simple cash transactions involving <br> whole-dollar amounts and amounts of less than <br> one dollar | Number Sense and Numeration 3A |

## Additional activities within other grades to support learning in Grade 3

## Number Sense and Numeration 1-2

- Shade Fractions
- Money
- Who's got the Money?

Number Sense and Numeration 3A

- Estimate Sums

Number Sense and Numeration 3B

- Divide Into Equal Groups

Measurement

- How Long is That?
- What's the Temperature (Celsius)?
- Using a Litre

Geometry and Spatial Sense

- Right Angle Relation
- What Type of Angle?
- Collect the Polygons
- Count Sides and Corners
- Equal Angles
- Comparing Angles
- Collect the Objects
- What Pyramid am I?
- What Prism am I?
- Congruent Figures (Dot Grid)
- Congruent Figures (Grid)
- Flip, Slide, Turn
- Transformations


## Patterning and Algebra

- Related Facts 1
- Fact Families: Add and Subtract

Data Management and Probability

- Sorting Data
- Fair Games

| Strand | Substrand/Topic | Specific Expectation | 国 Topic/Activities |
| :---: | :---: | :---: | :---: |
| B. Number | B1. Number Sense: Whole Numbers | B1.1 read, represent, compose, and decompose whole numbers up to and including 10000 , using appropriate tools and strategies, and describe various ways they are used in everyday life | Number Sense and Numeration 1 <br> - Place Value 3 <br> - Understanding Place Value 2 |
| B. Number | B1. Number Sense: Whole Numbers | B1.2 compare and order whole numbers up to and including 10000 , in various contexts | Number Sense and Numeration 1 <br> - Greater Than or Less Than? |
| B. Number | B1. Number Sense: Whole Numbers | B1.3 round whole numbers to the nearest ten, hundred, or thousand, in various contexts | Number Sense and Numeration 1 <br> - Nearest Ten? <br> - Nearest Hundred? <br> - Nearest Thousand? |
| B. Number | B1. Number Sense: <br> Fractions and Decimals | B1.4 represent fractions from halves to tenths using drawings, tools, and standard fractional notation, and explain the meanings of the denominator and the numerator | Number Sense and Numeration 1 <br> - What Fraction is Shaded? <br> - Identifying Fractions on a Number Line <br> - Model Fractions <br> - Shade Fractions |
| B. Number | B1. Number Sense: <br> Fractions and Decimals | B1.5 use drawings and models to represent, compare, and order fractions representing the individual portions that result from two different fair-share scenarios involving any combination of $2,3,4,5,6,8$, and 10 sharers | Teacher directed |
| B. Number | B1. Number Sense: <br> Fractions and Decimals | B1.6 count to 10 by halves, thirds, fourths, fifths, sixths, eighths, and tenths, with and without the use of tools | Teacher directed |
| B. Number | B1. Number Sense: <br> Fractions and Decimals | B1.7 read, represent, compare, and order decimal tenths, in various contexts | Teacher directed |
| B. Number | B1. Number Sense: <br> Fractions and Decimals | B1.8 round decimal numbers to the nearest whole number, in various contexts | Teacher directed |
| B. Number | B1. Number Sense: <br> Fractions and Decimals | B1.9 describe relationships and show equivalences among fractions and decimal tenths, in various contexts | Teacher directed |
| B. Number | B2. Operations: Properties and Relationships | B2.1 use the properties of operations, and the relationships between addition, subtraction, multiplication, and division, to solve problems involving whole numbers, including those requiring more than one operation, and check calculations | Number Sense and Numeration 3B <br> - Fact Families: Multiply and Divide <br> Patterning and Algebra <br> - Related Facts 2 |
| B. Number | B2. Operations: Math Facts | B2.2 recall and demonstrate multiplication facts for $1 \times 1$ to $10 \times 10$, and related division facts | Number Sense and Numeration 3B <br> - Fact Families: Multiply and Divide <br> - Arrays 1 <br> - Groups of Seven <br> - Groups of Eight <br> - Groups of Nine <br> - Dividing Sevens <br> - Dividing Eights <br> - Dividing Nines <br> - Times Tables |
| B. Number | B2. Operations: Mental Math | B2.3 use mental math strategies to multiply whole numbers by 10, 100, and 1000, divide whole numbers by 10 , and add and subtract decimal tenths, and explain the strategies used | Number Sense and Numeration 3B <br> - Multiplying by 10, 100, 1000 |


| Strand | Substrand/Topic | Specific Expectation | 国 Topic/Activities |
| :---: | :---: | :---: | :---: |
| B. Number | B2. Operations: Addition and Subtraction | B2.4 represent and solve problems involving the addition and subtraction of whole numbers that add up to no more than 10000 and of decimal tenths, using appropriate tools and strategies, including algorithms | Number Sense and Numeration 3A <br> - Mental Addition <br> - Add Two 2-Digit Numbers <br> - Add Two 2-Digit Numbers: Regroup <br> - Add 3 Numbers: Bonds to 100 <br> - Add Three 2-Digit Numbers <br> - Add Three 2-Digit Numbers: Regroup <br> - Mental Subtraction <br> - Decompose Numbers to Subtract <br> - 2-Digit Differences <br> - 2-Digit Differences: Regroup <br> - Adding Colossal Columns <br> - Subtracting Colossal Columns |
| B. Number | B2. Operations: Multiplication and Division | B2.5 represent and solve problems involving the multiplication of two- or three-digit whole numbers by one-digit whole numbers and by 10, 100, and 1000, using appropriate tools, including arrays | Number Sense and Numeration 3B <br> - Multiply: 2-Digit by 1-Digit <br> - Multiplying by 10,100, 1000 |
| B. Number | B2. Operations: Multiplication and Division | B2.6 represent and solve problems involving the division of two- or three-digit whole numbers by one-digit whole numbers, expressing any remainder as a fraction when appropriate, using appropriate tools, including arrays | Number Sense and Numeration 3B <br> - Halve it! <br> - Divide: 1-Digit Divisor 1 |
| B. Number | B2. Operations: Multiplication and Division | B2.7 represent the relationship between the repeated addition of a unit fraction and the multiplication of that unit fraction by a whole number, using tools, drawings, and standard fractional notation | Teacher directed |
| B. Number | B2. Operations: Multiplication and Division | B2.8 show simple multiplicative relationships involving whole-number rates, using various tools and drawings | Teacher directed |
| C. Algebra | C1. Patterns and Relationships: Patterns | C1.1 identify and describe repeating and growing patterns, including patterns found in real-life contexts | Patterning and Algebra <br> - Describing Patterns |
| C. Algebra | C1. Patterns and Relationships: Patterns | C1.2 create and translate repeating and growing patterns using various representations, including tables of values and graphs | Teacher directed |
| C. Algebra | C1. Patterns and Relationships: Patterns | C1.3 determine pattern rules and use them to extend patterns, make and justify predictions, and identify missing elements in repeating and growing patterns | Patterning and Algebra - Pick the Next Number <br> - Increasing Patterns |
| C. Algebra | C1. Patterns and Relationships: Patterns | C1.4 create and describe patterns to illustrate relationships among whole numbers and decimal tenths | Teacher directed |
| C. Algebra | C2. Equations and Inequalities: Variables | C2.1 identify and use symbols as variables in expressions and equations | Teacher directed |
| C. Algebra | C2. Equations and Inequalities: Equalities and Inequalities | C2.2 solve equations that involve whole numbers up to 50 in various contexts, and verify solutions | Patterning and Algebra <br> - Equivalent Facts: Multiply |


| Strand | Substrand/Topic | Specific Expectation | Topic/Activities |
| :--- | :--- | :--- | :--- | :--- |
| C. Algebra | C2. Equations <br> and Inequalities: <br> Equalities and <br> Inequalities | C2.3 solve inequalities that involve addition and <br> subtraction of whole numbers up to 20, and verify <br> and graph the solutions | Teacher directed |
| C. Algebra | C3. Coding: <br> Coding Skills | C3.1 solve problems and create computational <br> representations of mathematical situations by <br> writing and executing code, including code that <br> involves sequential, concurrent, repeating, and <br> nested events | Teacher directed |


| Strand | Substrand/Topic | Specific Expectation | 国 Topic/Activities |
| :---: | :---: | :---: | :---: |
| E. Spatial Sense | E1. Geometric and Spatial Reasoning: Geometric Reasoning | E1.1 identify geometric properties of rectangles, including the number of right angles, parallel and perpendicular sides, and lines of symmetry | Teacher directed |
| E. Spatial Sense | E1. Geometric and Spatial Reasoning: Location and Movement | E1.2 plot and read coordinates in the first quadrant of a Cartesian plane, and describe the translations that move a point from one coordinate to another | Teacher directed |
| E. Spatial Sense | E1. Geometric and Spatial Reasoning: Location and Movement | E1.3 describe and perform translations and reflections on a grid, and predict the results of these transformations | Teacher directed |
| E. Spatial Sense | E2. Measurement: The Metric System | E2.1 explain the relationships between grams and kilograms as metric units of mass, and between litres and millilitres as metric units of capacity, and use benchmarks for these units to estimate mass and capacity | Measurement <br> - Using a Litre |
| E. Spatial Sense | E2. Measurement: The Metric System | E2.2 use metric prefixes to describe the relative size of different metric units, and choose appropriate units and tools to measure length, mass, and capacity | Measurement <br> - Which Measuring Tool? <br> - How Long is That? <br> - Measuring Length <br> - How Heavy? |
| E. Spatial Sense | E2. Measurement: Time | E2.3 solve problems involving elapsed time by applying the relationships between different units of time | Measurement - Time Mentals - Elapsed Time |
| E. Spatial Sense | E2. Measurement: Angles | E2.4 identify angles and classify them as right, straight, acute, or obtuse | Geometry and Spatial Sense <br> - Right Angle Relation <br> - What Type of Angle? |
| E. Spatial Sense | E2. Measurement: Area | E2.5 use the row and column structure of an array to measure the areas of rectangles and to show that the area of any rectangle can be found by multiplying its side lengths | Measurement <br> - Area of Shapes |
| E. Spatial Sense | E2. Measurement: Area | E2.6 apply the formula for the area of a rectangle to find the unknown measurement when given two of the three | Measurement <br> - Area of Shapes |
| F. Financial Literacy | F1. Money and Finances: Money Concepts | F1.1 identify various methods of payment that can be used to purchase goods and services | Teacher directed |
| F. Financial Literacy | F1. Money and Finances: Money Concepts | F1.2 estimate and calculate the cost of transactions involving multiple items priced in whole-dollar amounts, not including sales tax, and the amount of change needed when payment is made in cash, using mental math | Teacher directed |
| F. Financial Literacy | F1. Money and Finances: Financial Management | F1.3 explain the concepts of spending, saving, earning, investing, and donating, and identify key factors to consider when making basic decisions related to each | Teacher directed |


| Strand | Substrand/Topic | Specific Expectation | 国 Topic/Activities |
| :--- | :--- | :--- | :--- |
| F. Financial <br> Literacy | F1. Money and <br> Finances: Financial <br> Management | F1.4 explain the relationship between spending <br> and saving, and describe how spending and <br> saving behaviours may differ from one person to <br> another | Teacher directed |
| F. Financial <br> Literacy | F1. Money and <br> Finances: Consumer <br> and Civic Awareness | F1.5 describe some ways of determining whether <br> something is reasonably priced and therefore a <br> good purchase | Teacher directed |

## Additional activities within other grades to support learning in Grade 4

Number Sense and Numeration 1

- Place Value to Thousands
- Comparing Fractions 1
- Compare Fractions la
- Compare Fractions lb
- Equivalent Fraction Wall 1
- Shading Equivalent Fractions
- Money
- Who's got the Money?

Number Sense and Numeration 3B

- Dividing by $10,100,1000$
- Estimate Sums
- Estimate Differences

Patterning and Algebra

- Decreasing Patterns
- Multiply 3 single-digit numbers

Geometry and Spatial Sense

- Lines of Symmetry
- Collect the Shapes 2
- Comparing Angles
- Prisms and Pyramids
- Faces, Edges and Vertices
- Coordinate Meeting Place
- Map Coordinates
- Using a Key


## Measurement

- What is the Time?
- Perimeter
- Perimeter: Squares and Rectangles
- Equal Areas
- Comparing Volume
- How many Blocks?
- Volume of Solids and Prisms-lcm³ blocks
- Perimeter, Area, Dimension Change
- Congruent Figures (Grid)

| Strand | Substrand/Topic | Specific Expectation | 目 Topic/Activities |
| :--- | :--- | :--- | :--- | :--- |
| B. Number | B1. Number Sense: <br> Whole Numbers | B1.1 read, represent, compose, and decompose <br> whole numbers up to and including 100 000, using <br> appropriate tools and strategies, and describe <br> various ways they are used in everyday life | Number Sense and Numeration 1 |
| B. Numbers in Words |  |  |  |
| - Understanding Place Value 3 3 |  |  |  |


| Strand | Substrand/Topic |  | Specific Expectation | Topic/Activities |
| :--- | :--- | :--- | :--- | :--- |
| B. Number | B2. Operations: <br> Multiplication and <br> Division | B2.6 represent and solve problems involving the <br> multiplication of two-digit whole numbers by two- <br> digit whole numbers using the area model and <br> using algorithms, and make connections between <br> the two methods | Number Sense and Numeration 3 |  |
|  | B2. Multiply 2 Digits Area Model <br> - Double and Halve to Multiply |  |  |  |
| B. Number | Multiplication and <br> Division | B2.7 represent and solve problems involving the <br> division of three-digit whole numbers by two-digit <br> whole numbers using the area model and using <br> algorithms, and make connections between the <br> two methods, while expressing any remainder <br> appropriately | Teacher directed |  |


| Strand | Substrand/Topic | Specific Expectation | 目 Topic/Activities |
| :---: | :---: | :---: | :---: |
| C. Algebra | C3. Coding: Coding Skills | C3.2 read and alter existing code, including code that involves conditional statements and other control structures, and describe how changes to the code affect the outcomes | Teacher directed |
| D. Data | D1. Data Literacy: Data Collection and Organization | D1.1 explain the importance of various sampling techniques for collecting a sample of data that is representative of a population | Teacher directed |
| D. Data | D1. Data Literacy: Data Collection and Organization | D1.2 collect data, using appropriate sampling techniques as needed, to answer questions of interest about a population, and organize the data in relative-frequency tables | Teacher directed |
| D. Data | D1. Data Literacy: Data Visualization | D1.3 select from among a variety of graphs, including stacked-bar graphs, the type of graph best suited to represent various sets of data; display the data in the graphs with proper sources, titles, and labels, and appropriate scales; and justify their choice of graphs | Teacher directed |
| D. Data | D1. Data Literacy: Data Visualization | D1.4 create an infographic about a data set, representing the data in appropriate ways, including in relative-frequency tables and stackedbar graphs, and incorporating any other relevant information that helps to tell a story about the data | Teacher directed |
| D. Data | D1. Data Literacy: Data Analysis | D1.5 determine the mean and the median and identify the mode(s), if any, for various data sets involving whole numbers and decimal numbers, and explain what each of these measures indicates about the data | Data Management and Probability <br> - The Mean |
| D. Data | D1. Data Literacy: Data Analysis | D1.6 analyse different sets of data presented in various ways, including in stacked-bar graphs and in misleading graphs, by asking and answering questions about the data, challenging preconceived notions, and drawing conclusions, then make convincing arguments and informed decisions | Data Management and Probability <br> - Tally Charts <br> - Reading from a Bar Chart <br> - Line Graphs: Interpretation <br> - Stem and Leaf Plots: Concept <br> - Interpreting Tables |
| D. Data | D2. Probability: Probability | D2.1 use fractions to express the probability of events happening, represent this probability on a probability line, and use it to make predictions and informed decisions | Data Management and Probability <br> - Probability Scale |
| D. Data | D2. Probability: Probability | D2.2 determine and compare the theoretical and experimental probabilities of an event happening | Data Management and Probability <br> - Introductory Probability <br> - Find the Probability |
| E. Spatial Sense | E1. Geometric and Spatial Reasoning: Geometric Reasoning | E1.1 identify geometric properties of triangles, and construct different types of triangles when given side or angle measurements | Geometry and Spatial Sense <br> - Triangle Tasters <br> - Triangles: Acute, Right, Obtuse |
| E. Spatial Sense | E1. Geometric and Spatial Reasoning: Geometric Reasoning | E1.2 identify and construct congruent triangles, rectangles, and parallelograms | Teacher directed |
| E. Spatial Sense | E1. Geometric and Spatial Reasoning: Geometric Reasoning | E1.3 draw top, front, and side views of objects, and match drawings with objects | Teacher directed |


| Strand | Substrand/Topic |  |  |
| :--- | :--- | :--- | :--- | :--- |
| E. Spatial Sense | E1. Geometric and <br> Spatial Reasoning: <br> Location and <br> Movement | E1.4 plot and read coordinates in the first <br> quadrant of a Cartesian plane using various <br> scales, and describe the translations that move a <br> point from one coordinate to another |  |
| E. Spatial Sense | E1. Geometric and <br> Spatial Reasoning: <br> Location and <br> Movement | E1.5 describe and perform translations, <br> reflections, and rotations up to 180ºn a grid, and <br> predict the results of these transformations | Teacher directed |

## Grade 5

## Additional activities within other grades to support learning in Grade 5

Number Sense and Numeration 1

- Place Value to Thousands
- What Fraction is Shaded?
- Identifying Fractions on a Number Line
- Identifying Fractions Beyond 1
- Decimal Place Value
- Rounding Decimals 1

Number Sense and Numeration 3

- Estimate Sums
- Estimate Differences
- Mental Methods Multiplication 1
- Mental Methods Multiplication 2
- Divide: 1-digit Divisor 2
- Divide: 1-digit Divisor, Remainder
- Estimate Quotients
- Multiply Decimals: 10,100,1000
- Divide Decimals: 10,100,1000


## Data Management and Probability

- Possible Outcomes

Geometry and Spatial Sense

- Collect More Shapes
- Collect the Polygons
- Prisms and Pyramids
- Collect the Objects 1
- Collect the Objects 2
- What Type of Angle?
- Classifying Angles
- What Direction was That?
- More Directions!
- Using a Key
- Map Coordinates

Measurement

- Area of Shapes
- Area: Compound Figures
- What is the Time?
- Time Mentals
- Elapsed Time
- What Time Will it Be?
- Using Timetables
- What's the Temperature (Celsius)?
- Perimeter of Shapes
- Perimeter: Triangles
- Perimeter: Squares and Rectangles
- Perimeter Detectives 1
- 24 Hour Time
- Filling Fast!

Grade 6

| Strand | Substrand/Topic | Specific Expectation | 国 Topic/Activities |
| :---: | :---: | :---: | :---: |
| B. Number | B1. Number Sense: Rational Numbers | B1.1 read and represent whole numbers up to and including one million, using appropriate tools and strategies, and describe various ways they are used in everyday life | Number Sense and Numeration 1 <br> - Numbers from Words to Digits 1 |
| B. Number | B1. Number Sense: Rational Numbers | B1.2 read and represent integers, using a variety of tools and strategies, including horizontal and vertical number lines | Teacher directed |
| B. Number | B1. Number Sense: Rational Numbers | B1.3 compare and order integers, decimal numbers, and fractions, separately and in combination, in various contexts | Number Sense and Numeration 1 <br> - Put in Order 1 <br> - Comparing Decimals <br> - Decimal Order <br> - Comparing Fractions 1 <br> - Comparing Fractions 2 <br> - Ordering Fractions 1 |
| B. Number | B1. Number Sense: Fractions, Decimals, and Percents | B1.4 read, represent, compare, and order decimal numbers up to thousandths, in various contexts | Number Sense and Numeration 1 <br> - Comparing Decimals <br> - Decimal Order <br> - Decimals on the Number Line <br> - Decimals on a Number Line |
| B. Number | B1. Number Sense: Fractions, Decimals, and Percents | B1.5 round decimal numbers, both terminating and repeating, to the nearest tenth, hundredth, or whole number, as applicable, in various contexts | Teacher directed |
| B. Number | B1. Number Sense: Fractions, Decimals, and Percents | B1.6 describe relationships and show equivalences among fractions and decimal numbers up to thousandths, using appropriate tools and drawings, in various contexts | Teacher directed |
| B. Number | B2. Operations: Properties and Relationships | B2.1 use the properties of operations, and the relationships between operations, to solve problems involving whole numbers, decimal numbers, fractions, ratios, rates, and whole number percents, including those requiring multiple steps or multiple operations | Number Sense and Numeration 2A <br> - Addition Properties <br> - Multiplication Properties |
| B. Number | B2. Operations: Math Facts | B2.2 understand the divisibility rules and use them to determine whether numbers are divisible by $2,3,4,5,6,8,9$, and 10 | Teacher directed |
| B. Number | B2. Operations: Mental Math | B2.3 use mental math strategies to calculate percents of whole numbers, including 1\%, $5 \%, 10 \%, 15 \%, 25 \%$, and $50 \%$, and explain the strategies used | Teacher directed |


| Strand | Substrand/Topic | Specific Expectation | 国 Topic/Activities |
| :---: | :---: | :---: | :---: |
| B. Number | B2. Operations: Addition and Subtraction | B2.4 represent and solve problems involving the addition and subtraction of whole numbers and decimal numbers, using estimation and algorithms | Number Sense and Numeration 2A <br> - Mental Addition <br> - Compensation - Add <br> - Mental Subtraction <br> - Compensation - Subtract <br> - Jump Add and Subtract <br> Number Sense and Numeration 2B-3 <br> - Add Decimals 1 <br> - Add Decimals 2 <br> - Estimate Decimal Sums 1 <br> - Estimate Decimal Sums 2 <br> - Subtract Decimals 2 <br> - Subtracting Decimals <br> - Estimate Decimal Differences 1 <br> - Estimate Decimal Differences 2 <br> - Estimate Sums <br> - Estimate Differences |
| B. Number | B2. Operations: Addition and Subtraction | B2.5 add and subtract fractions with like and unlike denominators, using appropriate tools, in various contexts | Teacher directed |
| B. Number | B2. Operations: Multiplication and Division | B2.6 represent composite numbers as a product of their prime factors, including through the use of factor trees | Number Sense and Numeration 1 <br> - Product of Prime Factors |
| B. Number | B2. Operations: Multiplication and Division | B2.7 represent and solve problems involving the multiplication of three-digit whole numbers by decimal tenths, using algorithms | Teacher directed |
| B. Number | B2. Operations: Multiplication and Division | B2.8 represent and solve problems involving the division of three-digit whole numbers by decimal tenths, using appropriate tools, strategies, and algorithms, and expressing remainders as appropriate | Teacher directed |
| B. Number | B2. Operations: Multiplication and Division | B2.9 multiply whole numbers by proper fractions, using appropriate tools and strategies | Teacher directed |
| B. Number | B2. Operations: Multiplication and Division | B2.10 divide whole numbers by proper fractions, using appropriate tools and strategies | Teacher directed |
| B. Number | B2. Operations: Multiplication and Division | B2.11 represent and solve problems involving the division of decimal numbers up to thousandths by whole numbers up to 10 , using appropriate tools and strategies | Teacher directed |
| B. Number | B2. Operations: Multiplication and Division | B2.12 solve problems involving ratios, including percents and rates, using appropriate tools and strategies | Number Sense and Numeration 2B-3 <br> - Rates |
| C. Algebra | C1. Patterns and Relationships: Patterns | C1.1 identify and describe repeating, growing, and shrinking patterns, including patterns found in real-life contexts, and specify which growing patterns are linear | Patterning and Algebra <br> - Describing Patterns |
| C. Algebra | C1. Patterns and Relationships: Patterns | C1.2 create and translate repeating, growing, and shrinking patterns using various representations, including tables of values, graphs, and, for linear growing patterns, algebraic expressions and equations | Teacher directed |


| Strand | Substrand/Topic | Specific Expectation |  |
| :--- | :--- | :--- | :--- |
| C. Algebra | C1. Patterns and <br> Relationships: <br> Patterns | C1.3 determine pattern rules and use them to <br> extend patterns, make and justify predictions, <br> and identify missing elements in repeating, <br> growing, and shrinking patterns, and use algebraic <br> representations of the pattern rules to solve for <br> unknown values in linear growing patterns | Patterning and Algebra |
| C. Algebra of Values |  |  |  |


| Strand | Substrand/Topic | Specific Expectation | Topic/Activities |
| :---: | :---: | :---: | :---: |
| D. Data | D1. Data Literacy: Data Visualization | D1.4 create an infographic about a data set, representing the data in appropriate ways, including in tables, histograms, and broken-line graphs, and incorporating any other relevant information that helps to tell a story about the data | Teacher directed |
| D. Data | D1. Data Literacy: Data Analysis | D1.5 determine the range as a measure of spread and the measures of central tendency for various data sets, and use this information to compare two or more data sets | Teacher directed |
| D. Data | D1. Data Literacy: Data Analysis | D1.6 analyse different sets of data presented in various ways, including in histograms and broken-line graphs and in misleading graphs, by asking and answering questions about the data, challenging preconceived notions, and drawing conclusions, then make convincing arguments and informed decisions | Data Management and Probability <br> - Histograms <br> - Stem and Leaf Plots: Concept <br> - Interpreting Tables <br> - Line Graphs: Interpretation <br> - Tally Charts |
| D. Data | D2. Probability: Probability | D2.1 use fractions, decimals, and percents to express the probability of events happening, represent this probability on a probability line, and use it to make predictions and informed decisions | Data Management and Probability <br> - Probability Scale |
| D. Data | D2. Probability: Probability | D2.2 determine and compare the theoretical and experimental probabilities of two independent events happening | Data Management and Probability <br> - Dice and Coins |
| E. Spatial Sense | E1. Geometric and Spatial Reasoning: Geometric Reasoning | E1.1 create lists of the geometric properties of various types of quadrilaterals, including the properties of the diagonals, rotational symmetry, and line symmetry | Geometry and Spatial Sense <br> - Properties of Quadrilaterals |
| E. Spatial Sense | E1. Geometric and Spatial Reasoning: Geometric Reasoning | E1.2 construct three-dimensional objects when given their top, front, and side views | Teacher directed |
| E. Spatial Sense | E1. Geometric and Spatial Reasoning: Location and Movement | E1.3 plot and read coordinates in all four quadrants of a Cartesian plane, and describe the translations that move a point from one coordinate to another | Geometry and Spatial Sense <br> - Coordinate Graphs: 1st Quadrant |
| E. Spatial Sense | E1. Geometric and Spatial Reasoning: Location and Movement | E1.4 describe and perform combinations of translations, reflections, and rotations up to $360^{\circ}$ on a grid, and predict the results of these transformations | Geometry and Spatial Sense <br> - Congruent Figures (Dot Grid) <br> - Congruent Figures (Grid) |
| E. Spatial Sense | E2. Measurement: The Metric System | E2.1 measure length, area, mass, and capacity using the appropriate metric units, and solve problems that require converting smaller units to larger ones and vice versa | Measurement <br> - Measuring Length <br> - Measure to the Nearest Half Centimetre <br> - How Heavy? <br> - Millilitres and Litres <br> - Grams and Kilograms <br> - Centimetres and Metres <br> - Converting Units of Length <br> - Converting Units of Area |
| E. Spatial Sense | E2. Measurement: Angles | E2.2 use a protractor to measure and construct angles up to $360^{\circ}$, and state the relationship between angles that are measured clockwise and those that are measured counterclockwise | Geometry and Spatial Sense <br> - Measuring Angles |


| Strand | Substrand/Topic | Specific Expectation | 国 Topic/Activities |
| :---: | :---: | :---: | :---: |
| E. Spatial Sense | E2. Measurement: Angles | E2.3 use the properties of supplementary angles, complementary angles, opposite angles, and interior and exterior angles to solve for unknown angle measures | Teacher directed |
| E. Spatial Sense | E2. Measurement: Area and Surface Area | E2.4 determine the areas of trapezoids, rhombuses, kites, and composite polygons by decomposing them into shapes with known areas | Teacher directed |
| E. Spatial Sense | E2. Measurement: Area and Surface Area | E2.5 create and use nets to demonstrate the relationship between the faces of prisms and pyramids and their surface areas | Teacher directed |
| E. Spatial Sense | E2. Measurement: Area and Surface Area | E2.6 determine the surface areas of prisms and pyramids by calculating the areas of their twodimensional faces and adding them together | Measurement <br> - Surface Area: Triangular Prisms <br> - Surface Area: Rectangular Prisms |
| F. Financial Literacy | F1. Money and Finances: Money Concepts | F1.1 describe the advantages and disadvantages of various methods of payment that can be used to purchase goods and services | Teacher directed |
| F. Financial Literacy | F1. Money and Finances: Financial Management | F1.2 identify different types of financial goals, including earning and saving goals, and outline some key steps in achieving them | Teacher directed |
| F. Financial Literacy | F1. Money and Finances: Financial Management | F1.3 identify and describe various factors that may help or interfere with reaching financial goals | Teacher directed |
| F. Financial Literacy | F1. Money and Finances: Consumer and Civic Awareness | F1.4 explain the concept of interest rates, and identify types of interest rates and fees associated with different accounts and loans offered by various banks and other financial institutions | Teacher directed |
| F. Financial Literacy | F1. Money and Finances: Consumer and Civic Awareness | F1.5 describe trading, lending, borrowing, and donating as different ways to distribute financial and other resources among individuals and organizations | Teacher directed |

## Grade 6

## Additional activities within other grades to support learning in Grade 6

Number Sense and Numeration 1

- Place Value to Millions
- Place Value 1 (x10 and $\div 10$ )
- Place Value $2(x 10$ and $\div 10$ )
- Decimal Place Value
- Equivalent Fractions on a Number Line 2
- Equivalent Fraction Wall 2
- Identifying Fractions Beyond 1
- Mixed and Improper Fractions on a Number Line
- Prime or Composite?

Number Sense and Numeration 2A

- Mental Methods Multiplication 1
- Mental Methods Multiplication 2
- Double and Halve to Multiply
- Mental Methods Division 1
- Mental Methods Division 2
- Contracted Multiplication
- Long Multiplication
- Divide: 2-Digit Divisor, Remainder
- Long Division

Number Sense and Numeration 2B-3

- Multiply Decimals and Powers of 10
- Divide by Powers of 10
- Mixed decimal, percentage and fraction conversions
- Match Decimals and Percentages

Data Management and Probability

- Mean
- Introductory Probability
- Find the Probability
- Will it Happen?
- Chance Gauge
- What are the Chances?

Geometry and Spatial Sense

- Symmetry or Not?
- Rotational Symmetry of Shapes
- Rotational Symmetry
- What Type of Angle?
- Classifying Angles
- Rotations: Coordinate Plane
- Transformations

Measurement

- Area: Triangles
- Area: Right Triangles
- Area: Parallelograms (Metric)
- Volume: Triangular Prisms
- Volume: Rectangular Prisms 1

| Strand | Substrand/Topic |  | Specific Expectation | Topic/Activities |
| :--- | :--- | :--- | :--- | :--- |
| B. Number | B1. Number Sense: <br> Rational Numbers | B1.1 represent and compare whole numbers up <br> to and including one billion, including in expanded <br> form using powers of ten, and describe various <br> ways they are used in everyday life | Teacher directed |  |
| B. Number | B1. Number Sense: <br> Rational Numbers | B1.2 identify and represent perfect squares, and <br> determine their square roots, in various contexts | Teacher directed |  |


| Strand | Substrand/Topic | Specific Expectation | 目 Topic/Activities |
| :--- | :--- | :--- | :--- | :--- |
| B. Number | B2. Operations: <br> Multiplication and <br> Division | B2.6 determine the greatest common factor for <br> a variety of whole numbers up to 144 and the <br> lowest common multiple for two and three whole <br> numbers | Number Sense and Numeration 1 <br> - Venn Diagram 1 <br> - Multiples <br> - Factors <br> - Find the Factor |
| B. Number | B2. Operations: <br> Multiplication and <br> Division | B2.7 evaluate and express repeated multiplication <br> of whole numbers using exponential notation, in <br> various contexts | Teacher directed |


| Strand | Substrand/Topic | Specific Expectation | 国 Topic/Activities |
| :---: | :---: | :---: | :---: |
| C. Algebra | C3. Coding: Coding Skills | C3.1 solve problems and create computational representations of mathematical situations by writing and executing efficient code, including code that involves events influenced by a defined count and/or sub-program and other control structures | Teacher directed |
| C. Algebra | C3. Coding: Coding Skills | C3.2 read and alter existing code, including code that involves events influenced by a defined count and/or sub-program and other control structures, and describe how changes to the code affect the outcomes and the efficiency of the code | Teacher directed |
| D. Data | D1. Data Literacy: Data Collection and Organization | D1.1 explain why percentages are used to represent the distribution of a variable for a population or sample in large sets of data, and provide examples | Teacher directed |
| D. Data | D1. Data Literacy: Data Collection and Organization | D1.2 collect qualitative data and discrete and continuous quantitative data to answer questions of interest, and organize the sets of data as appropriate, including using percentages | Data Management and Probability <br> - Grouped Frequency |
| D. Data | D1. Data Literacy: Data Visualization | D1.3 select from among a variety of graphs, including circle graphs, the type of graph best suited to represent various sets of data; display the data in the graphs with proper sources, titles, and labels, and appropriate scales; and justify their choice of graphs | Teacher directed |
| D. Data | D1. Data Literacy: Data Visualization | D1.4 create an infographic about a data set, representing the data in appropriate ways, including in tables and circle graphs, and incorporating any other relevant information that helps to tell a story about the data | Teacher directed |
| D. Data | D1. Data Literacy: Data Analysis | D1.5 determine the impact of adding or removing data from a data set on a measure of central tendency, and describe how these changes alter the shape and distribution of the data | Teacher directed |
| D. Data | D1. Data Literacy: Data Analysis | D1.6 analyse different sets of data presented in various ways, including in circle graphs and in misleading graphs, by asking and answering questions about the data, challenging preconceived notions, and drawing conclusions, then make convincing arguments and informed decisions | Data Management and Probability <br> - Divided Bar Graphs <br> - Sector Graphs <br> - Tally Charts <br> - Interpreting Tables <br> - Frequency Histograms <br> - Line Graphs: Interpretation |
| D. Data | D2. Probability: Probability | D2.1 describe the difference between independent and dependent events, and explain how their probabilities differ, providing examples | Teacher directed |
| D. Data | D2. Probability: Probability | D2.2 determine and compare the theoretical and experimental probabilities of two independent events happening and of two dependent events happening | Data Management and Probability <br> - Dice and Coins |
| E. Spatial Sense | E1. Geometric and Spatial Reasoning: Geometric Reasoning | E1.1 describe and classify cylinders, pyramids, and prisms according to their geometric properties, including plane and rotational symmetry | Teacher directed |


| Strand | Substrand/Topic |  |  |
| :--- | :--- | :--- | :--- | :--- |
| E. Spatial Sense | E1. Geometric and <br> Spatial Reasoning: <br> Geometric <br> Reasoning | E1.2 draw top, front, and side views, as well as <br> perspective views, of objects and physical spaces, <br> using appropriate scales | Teacher directed |
| E. Spatial Sense | E1. Geometric and <br> Spatial Reasoning: <br> Location and <br> Movement | E1.3 perform dilations and describe the similarity <br> between the image and the original shape | Geometry and Spatial Sense <br> - Similar Figures 1 |
| E. Spatial Sense | E1. Geometric and <br> Spatial Reasoning: <br> Location and <br> Movement | E1.4 describe and perform translations, <br> reflections, and rotations on a Cartesian plane, <br> and predict the results of these transformations | Teacher directed |


| Strand | Substrand/Topic | Specific Expectation | Topic/Activities |
| :--- | :--- | :--- | :--- |
| F. Financial <br> Literacy | F1. Money and <br> Finances: Financial <br> Management | F1.4 identify various societal and personal factors <br> that may influence financial decision making, and <br> describe the effects that each might have | Teacher directed |
| F. Financial <br> Literacy | F1. Money and <br> Finances: Consumer <br> and Civic Awareness | F1.5 explain how interest rates can impact savings, <br> investments, and the cost of borrowing to pay for <br> goods and services over time | Teacher directed |
| F. Financial | F1. Money and <br> Finances: Consumer <br> Literacy | F1.6 compare interest rates and fees for different <br> accounts and loans offered by various financial <br> institutions, and determine the best option for <br> different scenarios | Teacher directed |

## Additional activities within other grades to support learning in Grade 4

## Number Sense and Numeration 1

- Decimal Place Value

Number Sense and Numeration 2

- Divide Decimal by Whole Number
- Multiply Decimal by Whole Number
- Money Problems: Four Operations
- Estimate Decimal Sums 1
- Estimate Decimal Sums 2
- Estimate Decimal Differences 1
- Estimate Decimal Differences 2
- Estimate Decimal Operations
- Model Fractions to Multiply

Number Sense and Numeration 3

- What Percentage?
- Ratio and Proportion

Patterning and Algebra

- Graphing from a Table of Values
- $y=a x$
- Writing Algebraic Expressions

Data Management and Probability

- Mean from a Frequency Table
- Median from a Frequency Table
- Mode from a Frequency Table


## Geometry and Spatial Sense

- Triangle Tasters
- Properties of Quadrilaterals
- Perimeter, Area, Dimension Change
- Transformations
- Congruent Figures (Grid)
- Coordinate Graphs


## Measurement

- Converting Units of Mass
- Mass Addition
- Area: Quadrilaterals
- Area: Composite Shapes
- Nets
- Surface Area: Rectangular Prisms
- Surface Area: Triangular Prisms

| Strand | Substrand/Topic | Specific Expectation | 国 Topic/Activities |
| :---: | :---: | :---: | :---: |
| B. Number | B1. Number Sense: Rational and Irrational Numbers | B1.1 represent and compare very large and very small numbers, including through the use of scientific notation, and describe various ways they are used in everyday life | Teacher directed |
| B. Number | B1. Number Sense: Rational and Irrational Numbers | B1.2 describe, compare, and order numbers in the real number system (rational and irrational numbers), separately and in combination, in various contexts | Number Sense and Numeration 1 <br> - Ordering Integers (Number Line) <br> - Comparing Fractions with Signs |
| B. Number | B1. Number Sense: Rational and Irrational Numbers | B1.3 estimate and calculate square roots, in various contexts | Number Sense and Numeration 2B <br> - Square Roots 1 <br> - Estimate Square Roots |
| B. Number | B1. Number Sense: Fractions, Decimals, and Percents | B1.4 use fractions, decimal numbers, and percents, including percents of more than $100 \%$ or less than $1 \%$, interchangeably and flexibly to solve a variety of problems | Number Sense and Numeration 1 <br> - Decimals to Fractions 1 <br> - Decimals to Fractions 2 <br> - Fractions to Decimals <br> - Fractions to Decimals 2 <br> - Percents and Decimals <br> - Percents to Fractions <br> Number Sense and Numeration 2A <br> - Percentage Word Problems <br> - Percentage of an amount using fractions (< 100\%) <br> - Percentages of a quantity (>100\%) <br> - Successive Discounts <br> - Quantities to Percentages (no units) <br> - Commission <br> - Percent Increase and Decrease <br> - Solve Percent Equations <br> - Money Problems: Four Operations <br> - Best Buy |
| B. Number | B2. Operations: Properties and Relationships | B2.1 use the properties and order of operations, and the relationships between operations, to solve problems involving rational numbers, ratios, rates, and percents, including those requiring multiple steps or multiple operations | Number Sense and Numeration 2B <br> - Integers: Order of Operations (BEDMAS) |
| B. Number | B2. Operations: Math Facts | B2.2 understand and recall commonly used square numbers and their square roots | Number Sense and Numeration $2 B$ <br> - Square Roots 1 |
| B. Number | B2. Operations: Mental Math | B2.3 use mental math strategies to multiply and divide whole numbers and decimal numbers up to thousandths by powers of ten, and explain the strategies used | Number Sense and Numeration 2B <br> - Multiply Decimals and Powers of 10 <br> - Divide Decimals by Powers of 10, 100, 1000 |
| B. Number | B2. Operations: Addition and Subtraction | B2.4 add and subtract integers, using appropriate strategies, in various contexts | Number Sense and Numeration 2B <br> - Integers: Add and Subtract |
| B. Number | B2. Operations: Addition and Subtraction | B2.5 add and subtract fractions, using appropriate strategies, in various contexts | Number Sense and Numeration 2B <br> - Add Like Fractions <br> - Add Unlike Fractions <br> - Subtract Like Fractions <br> - Subtract Unlike Fractions |
| B. Number | B2. Operations: Multiplication and Division | B2.6 multiply and divide fractions by fractions, as well as by whole numbers and mixed numbers, in various contexts | Number Sense and Numeration 2B <br> - Multiply Fraction by Fraction <br> - Divide Fractions Visual Model <br> - Multiply Two Fractions 1 <br> - Divide Fractions by Fractions 1 |


| Strand | Substrand/Topic | Specific Expectation | Topic/Activities |
| :--- | :--- | :--- | :--- |
| B. Number | B2. Operations: <br> Multiplication and <br> Division | B2.7 multiply and divide integers, using <br> appropriate strategies, in various contexts | Teacher directed |
| B. Number | B2. Operations: <br> Multiplication and <br> Division | B2.8 compare proportional situations and <br> determine unknown values in proportional <br> situations, and apply proportional reasoning to <br> solve problems in various contexts | - Rates Word Problems <br> - Rates |
| C. Algebra Speed |  |  |  |


| Strand | Substrand/Topic | Specific Expectation | 国 Topic/Activities |
| :---: | :---: | :---: | :---: |
| C. Algebra | C3. Coding: Coding Skills | C3.1 solve problems and create computational representations of mathematical situations by writing and executing code, including code that involves the analysis of data in order to inform and communicate decisions | Teacher directed |
| C. Algebra | C3. Coding: Coding Skills | C3.2 read and alter existing code involving the analysis of data in order to inform and communicate decisions, and describe how changes to the code affect the outcomes and the efficiency of the code | Teacher directed |
| D. Data | D1. Data Literacy: Data Collection and Organization | D1.1 identify situations involving one-variable data and situations involving two-variable data, and explain when each type of data is needed | Teacher directed |
| D. Data | D1. Data Literacy: Data Collection and Organization | D1.2 collect continuous data to answer questions of interest involving two variables, and organize the data sets as appropriate in a table of values | Teacher directed |
| D. Data | D1. Data Literacy: Data Visualization | D1.3 select from among a variety of graphs, including scatter plots, the type of graph best suited to represent various sets of data; display the data in the graphs with proper sources, titles, and labels, and appropriate scales; and justify their choice of graphs | Data Management and Probability <br> - Data Analysis: Scatter Plots |
| D. Data | D1. Data Literacy: Data Visualization | D1.4 create an infographic about a data set, representing the data in appropriate ways, including in tables and scatter plots, and incorporating any other relevant information that helps to tell a story about the data | Teacher directed |
| D. Data | D1. Data Literacy: Data Analysis | D1.5 use mathematical language, including the terms "strong", "weak", "none", "positive", and "negative", to describe the relationship between two variables for various data sets with and without outliers | Data Management and Probability <br> - Scatter Plots |
| D. Data | D1. Data Literacy: Data Analysis | D1.6 analyse different sets of data presented in various ways, including in scatter plots and in misleading graphs, by asking and answering questions about the data, challenging preconceived notions, and drawing conclusions, then make convincing arguments and informed decisions | Data Management and Probability <br> - Histograms <br> - Scatter Plots <br> - Line Graphs: Interpretation <br> - Travel Graphs |
| D. Data | D2. Probability: Probability | D2.1 solve various problems that involve probability, using appropriate tools and strategies, including Venn and tree diagrams | Data Management and Probability <br> - Complementary Events |
| D. Data | D2. Probability: Probability | D2.2 determine and compare the theoretical and experimental probabilities of multiple independent events happening and of multiple dependent events happening | Teacher directed |
| E. Spatial Sense | E1. Geometric and Spatial Reasoning: Geometric Reasoning | E1.1 identify geometric properties of tessellating shapes and identify the transformations that occur in the tessellations | Teacher directed |
| E. Spatial Sense | E1. Geometric and Spatial Reasoning: Geometric Reasoning | E1.2 make objects and models using appropriate scales, given their top, front, and side views or their perspective views | Teacher directed |


| Strand | Substrand/Topic |  | Specific Expectation | Topic/Activities |
| :--- | :--- | :--- | :--- | :--- |

Mathletics

| Strand | Substrand/Topic | Specific Expectation | Topic/Activities |
| :--- | :--- | :--- | :--- |
| F. Financial <br> Literacy | F1. Money and <br> Finances: Consumer <br> and Civic Awareness | F1.5 compare various ways for consumers to <br> get more value for their money when spending, <br> including taking advantage of sales and customer <br> loyalty and incentive programs, and determine <br> the best choice for different scenarios | Teacher directed |
| F. Financial | F1. Money and <br> Linances: Consumer <br> Literacy | F1.6 compare interest rates, annual fees, and <br> rewards and other incentives offered by various <br> credit card companies and consumer contracts to <br> determine the best value and the best choice for | Teacher directed |
| different scenarios |  |  |  |

## Grade 8: Activities to review/extend

## Number Sense and Numeration 1

- Exponent Notation
- Prime Factoring
- Greatest Common Factor
- Least Common Multiple

Number Sense and Numeration 2A

- Estimate Decimal Operations
- Estimate Decimal Sums 2
- Estimate Decimal Differences 2
- Estimate Sums
- Estimate Differences
- Estimate Products
- Estimate Quotients

Patterning and Algebra

- Graphing from a Table of Values
- Writing Algebraic Expressions


## Data Management and Probability

- Which Measure of Central Tendency?


## Geometry and Spatial Sense

- Properties of Quadrilaterals
- Perimeter, Area, Dimension Change
- Similar Figures
- Euler's Formula


## Measurement

- Converting Units of Area
- Converting Volume
- Capacity Word Problems
- Capacity Addition
- Circumference: Circles
- Area: Circles 1
- Surface Area: Cylinders
- Volume: Cylinders


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