

Correlation of Ontario Program of Studies with Mathology Grade 6

Overall Expectation

A1. Social-Emotional Learning (SEL) Skills and the Mathematical Processes

Mathology provides teachers with a flexible framework for Social Emotional Learning Skills, by including:

- o Diverse resources in real-world contexts, so students can see themselves and others while positively engaging in mathematical activities
- o Differentiated support to cope with challenges, meet students where they are and move them forward
- o Learning opportunities (small group, pair, whole class), to work collaboratively on math problems, share thinking, and listen to the thinking of others
- o **Digital** (e.g., virtual tools) and **printable resources** (e.g., lesson slides, line masters, and math mats), which allow students to reveal their mathematical thinking in a risk-free environment
- o A variety of voices (built by and for Canadian learners) and opportunities to support local contexts (modifiable resources)

Curriculum Expectations	Grade 6 Mathology.ca	Mathology Practice Workbook 6	Pearson Canada Grades 4-6 Mathematics Learning Progression
B. Number			
B1. Number Sense			
demonstrate an understanding	ng of numbers and make connecti	ons to the way numbers are us	ed in everyday life
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	ole numbers up to and luding one million, using propriate tools and ategies, and describe rious ways they are used everyday life Relationships and Place Value 1: Representing Larger Numbers (to 1 000 000 and Beyond) 2: Representing Numbers in Different Forms	(p. 9)	Big Idea: The set of real numbers is infinite. Extending whole number understanding to the set of real numbers - Extends whole number understanding to 1 000 000. Decomposing and composing numbers to investigate equivalencies - Composes and decomposes whole numbers using standard and non-standard partitioning (e.g., 1000 is 10
	5. Consolidation of Number Relationships and Place Value		hundreds or 100 tens). Big Idea: Quantities and numbers can be grouped by or partitioned into equal-sized units. Unitizing quantities into base-ten units



B1.2 read and represent integers, using a	Number Unit 3: Fractions, Decimals, Percents, and	Unit 7 Questions 11, 12 (pp. 49-50)	 - Writes and reads whole numbers in multiple forms (e.g., 1358; one thousand three hundred fifty-eight; 1000 + 300 + 50 + 8). - Understands that the value of a digit is ten times the value of the same digit one place to the right. Big Idea: The set of real numbers is infinite Extending whole number understanding to the set of
variety of tools and strategies, including horizontal and vertical number lines	Integers 19: Representing Integers 21. Consolidation of Fractions, Decimals, Percents, and Integers	(pp. 45 30)	real numbers - Extends whole number understanding to negative numbers.
B1.3 compare and order integers, decimal numbers, and fractions, separately and in combination, in various contexts	Number Unit 3: Fractions, Decimals, Percents, and Integers 14: Comparing and Ordering Fractions 17: Comparing and Ordering Fractions and Decimals 20: Comparing and Ordering Integers 21. Consolidation of Fractions, Decimals, Percents, and Integers	Unit 7 Questions 3, 5, 6, 7, 12, 13, 14, 15, 16 (pp. 46-47, 50-51)	Big Idea: The set of real numbers is infinite Extending whole number understanding to the set of real numbers - Extends whole number understanding to negative numbers.
Fractions, Decimals, and Pero	1		
B1.4 read, represent, compare, and order decimal numbers up to thousandths, in various contexts	Number Unit 3: Fractions, Decimals, Percents, and Integers 15: Representing Decimals 16: Comparing and Ordering Decimals 21. Consolidation of Fractions, Decimals, Percents, and Integers	Unit 7 Questions 6, 7, 8, 9, 15, 16 (pp. 47-48, 50-51)	Big Idea: The set of real numbers is infinite. Extending whole number understanding to the set of real numbers - Extends decimal number understanding to thousandths. Big Idea: Numbers are related in many ways. Comparing and ordering quantities (multitude or magnitude) - Compares, orders, and locates decimal numbers using place-value understanding. Decomposing and composing numbers to investigate equivalencies



			- Composes and decomposes decimal numbers using standard and non-standard partitioning (e.g., 1.6 is 16 tenths or 0.16 tens). Big Idea: Quantities and numbers can be grouped by or partitioned into equal-sized units. Unitizing quantities into base-ten units - Understands that the value of a digit is ten times the value of the same digit one place to the right. - Understands that the value of a digit is one-tenth the value of the same digit one place to the left. - Writes and reads decimal numbers in multiple forms (e.g., numerals, number names, expanded form).
B1.5 round decimal numbers, both terminating and repeating, to the nearest tenth, hundredth, or whole number, as applicable, in various contexts	Number Unit 3: Fractions, Decimals, Percents, and Integers 16: Comparing and Ordering Decimals 21. Consolidation of Fractions, Decimals, Percents, and Integers	Unit 3 Question 12 (p. 19) Unit 7 Questions 6, 16 (pp. 47, 51)	Big Idea: Numbers are related in many ways. Comparing and ordering quantities (multitude or magnitude) - Provides approximate decimal values using multiple strategies (e.g., estimation, rounding, truncating).
B1.6 describe relationships and show equivalences among fractions and decimal numbers up to thousandths, using appropriate tools and drawings, in various contexts	Number Unit 3: Fractions, Decimals, Percents, and Integers 15: Representing Decimals 17: Comparing and Ordering Fractions and Decimals 21. Consolidation of Fractions, Decimals, Percents, and Integers	Unit 7 Questions 8, 9, 10, 15, 16 (pp. 48-51)	Big Idea: Numbers are related in many ways. Decomposing and composing numbers to investigate equivalencies - Models and explains the relationship between a fraction and its equivalent decimal form (e.g., $\frac{2}{5} = \frac{4}{10} = 0.4$). - Models and explains the relationships among fractions, decimals, and percents. - Translates flexibly between representations. Big Idea: Quantities and numbers can be grouped by or partitioned into equal-sized units. Unitizing quantities into base-ten units - Uses fractions with denominators of 10 to develop decimal fraction understanding and notation (e.g., five-tenths is $\frac{5}{10}$ or 0.5). - Understands that the value of a digit is ten times the value of the same digit one place to the right. - Understands that the value of a digit is one-tenth the value of the same digit one place to the left.



B2. Operations

use knowledge of numbers and operations to solve mathematical problems encountered in everyday life

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 Unit 2: Fluency with Whole Numbers

- 6: Solving Problems with Whole Numbers
- 7: Estimating Reasonableness of Solutions
- 8: The Order of Operations
- 9: Mental Math Strategies
- 10: Unit Rates
- 11: Exploring Ratios
- 12. Consolidation of Fluency with Whole Numbers

Number Unit 4: Operations with Fractions, Decimals, and Percents

- 22: Multiplying Decimals by 1-Digit Numbers
- 24: Dividing Decimals by 1-Digit Numbers
- 25: Dividing 3-Digit Whole Numbers by Decimal Tenths 26: Adding and Subtracting
- Decimals
- 27: Adding and Subtracting Fractions
- 28: Multiplying and Dividing Whole Numbers by Proper Fractions
- 29: Using Mental Math to Calculate Percents
 30. Consolidation of
- 30. Consolidation of Operations with Fractions, Decimals, and Percents

Unit 3 Questions 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 (pp. 15-20)

Unit 8 Questions 1, 2, 3, 4, 5, 6, 7, 13 (pp. 52-55, 58)

Unit 12 Questions 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 (pp. 81-87)

Big Idea: Numbers are related in many ways. Using ratios, rates, proportions, and percents creates a relationship between quantities

- Demonstrates multiplicative reasoning by applying unit rates in whole number contexts (e.g., If she earns \$12 per hour, how much will she earn for 5 hours of work?).
- Understands the concept of ratio as a relationship between two quantities (e.g., 3 wins to 2 losses).
- Understands and applies the concept of unit rates (e.g., If 3 kg is \$5, how much is 1 kg or how many kg for \$1?).
- Understands and applies the concept of percentage as a rate per 100 (e.g., calculating sales tax, tips, or discounts). Big Idea: Quantities and numbers can be operated on to determine how many and how much.

Developing conceptual meaning of operations

- Extends whole number computation models to larger numbers.
- Demonstrates an understanding of decimal number computation through modelling and flexible strategies. **Developing fluency of operations**
- Solves whole number computation using efficient strategies (e.g., mental computation, algorithms, calculating cost of transactions and change owing, saving money to make a purchase).
- Solves decimal number computation using efficient strategies.



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	Relationships and Place Value 3: Identifying Factors and Multiples 4: Identifying Prime and Composite Numbers 5: Consolidation of Number Relationships and Place Value Number Unit 2: Fluency with Whole Numbers 6: Solving Problems with Whole Numbers 10: Unit Rates Number Unit 4: Operations with Fractions, Decimals, and Percents 24: Dividing Decimals by 1- Digit Numbers 25: Dividing 3-Digit Whole Numbers by Decimal Tenths 30. Consolidation of Operations with Decimals, Fractions, and Percents	Unit 2 Questions 11, 12, 13, 14, 15, 16 (pp. 12-14) Unit 3 Questions 6, 7, 8 (pp. 17-18) Unit 12 Questions 3, 6, 14 (pp. 82-83, 84, 87)	Big Idea: Quantities and numbers can be operated on to determine how many and how much. Investigating number and arithmetic properties - Uses reasoning and knowledge of factors to examine divisibility of numbers (by 4, 8, 3, 6, and 9).
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	Number Unit 4: Operations with Fractions, Decimals, and Percents 29: Using Mental Math to Calculate Percents	Unit 12 Questions 7, 8, 9, 10, 14 (pp. 84-85, 87)	Big Idea: Numbers are related in many ways. Decomposing and composing numbers to investigate equivalencies - Models and explains the relationships among fractions, decimals, and percents. - Translates flexibly between representations. Using ratios, rates, proportions, and percents creates a relationship between quantities



	30. Consolidation of		- Understands and applies the concept of percentage as a
	Operations with Fractions,		rate per 100 (e.g., calculating sales tax, tips, or discounts).
	· ·		Tate per 100 (e.g., carearating sales tax, tips, or alsocalits).
	Decimals, and Percents		
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 Unit 2: Fluency with Whole Numbers 6: Solving Problems with Whole Numbers 7: Estimating Reasonableness of Solutions 9: Mental Math Strategies 12. Consolidation of Fluency with Whole Numbers Number Unit 4: Operations with Fractions, Decimals, and Percents 26: Adding and Subtracting Decimals	Unit 8 Questions 1, 2, 3, 13 (pp. 52-53, 58) Unit 11 Question 11 (p. 78)	Big Idea: Quantities and numbers can be operated on to determine how many and how much. Developing conceptual meaning of operations - Extends whole number computation models to larger numbers. - Demonstrates an understanding of decimal number computation through modelling and flexible strategies. Developing fluency of operations - Estimates the result of whole number operations using contextually relevant strategies (e.g., How many buses are needed to take the Grade 8 classes to the museum?). - Solves whole number computation using efficient strategies (e.g., mental computation, algorithms, calculating cost of transactions and change owing, saving money to make a purchase). - Estimates sums and differences of decimal numbers (e.g., calculating cost of transactions involving dollars and
	30. Consolidation of Operations with Fractions, Decimals, and Percents		cents) Solves decimal number computation using efficient strategies.
B2.5 add and subtract fractions with like and unlike denominators, using appropriate tools, in various contexts	Number Unit 4: Operations with Fractions, Decimals, and Percents 27: Adding and Subtracting Fractions 30. Consolidation of Operations with Fractions, Decimals, and Percents	Unit 8 Questions 4, 5, 6, 7, 13 (pp. 54-55, 58)	Big Idea: Quantities and numbers can be operated on to determine how many and how much. Developing conceptual meaning of operations - Models and symbolizes fraction addition and subtraction with like denominators (e.g., $\frac{2}{5} + \frac{1}{5}$) and where one denominator is a multiple of the other (e.g., $\frac{2}{5} + \frac{3}{10}$).
Multiplication and Division			
B2.6 represent composite numbers as a product of their prime factors,	Number Unit 1: Number Relationships and Place Value 3: Identifying Factors and Multiples	Unit 2 Questions 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 (pp. 11-14)	Big Idea: Numbers are related in many ways. Decomposing and composing numbers to investigate equivalencies - Decomposes numbers into prime factors.



including through the use of factor trees	4: Identifying Prime and Composite Numbers 5. Consolidation of Number Relationships and Place Value		Big Idea: Quantities and numbers can be operated on to determine how many and how much. Investigating number and arithmetic properties - Examines and classifies whole numbers based on their properties (e.g., even/odd; prime; composite; divisible by 2, 5, 10). - Generates multiples and factors for numbers using flexible strategies. - Distinguishes between and investigates properties of prime and composite numbers (e.g., prime factorization). Developing fluency of operations - Fluently recalls multiplication and division facts to 100.
B2.7 represent and solve problems involving the multiplication of three-digit whole numbers by decimal tenths, using algorithms	Number Unit 2: Fluency with Whole Numbers 6: Solving Problems with Whole Numbers 12: Consolidation of Fluency with Whole Numbers Number Unit 4: Operations with Fractions, Decimals, and Percents 23: Multiplying 3-Digit Whole Numbers by Decimal Tenths 30: Consolidation with Fractions, Decimals, and Percents	Unit 12 Questions 1, 14 (pp. 81, 84, 87)	Big Idea: Quantities and numbers can be operated on to determine how many and how much. Developing conceptual meaning of operations - Understands and explains the effect of multiplying and dividing decimal numbers by powers of 10 less than one (i.e., 0.1, 0.001, etc.). - Explores multiplication as scaling and estimates the resulting product when scaling a given number by a number less than, equal to, or greater than 1 (e.g., \frac{1}{2} \times 12; 5.2 \times 12; 0.3 \times 12). Developing fluency of operations - Solves decimal number computation using efficient strategies.
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	Number Unit 2: Fluency with Whole Numbers 6: Solving Problems with Whole Numbers 12: Consolidation of Fluency with Whole Numbers	Unit 12 Questions 3, 6, 14 (pp. 82-83, 84, 87)	Big Idea: Quantities and numbers can be operated on to determine how many and how much. Developing conceptual meaning of operations - Understands and explains the effect of multiplying and dividing decimal numbers by powers of 10 less than one (i.e., 0.1, 0.001, etc.). Developing fluency of operations - Solves decimal number computation using efficient strategies.



	Number Unit 4: Operations with Fractions, Decimals and Percents 25: Dividing 3-Digit Whole Numbers by Decimal Tenths 30. Consolidation of Operations with Fractions,		
	Decimals and Percents		
B2.9 multiply whole numbers by proper fractions, using appropriate tools and strategies	Number Unit 4: Operations with Fractions, Decimals, and Percents 28: Multiplying and Dividing Whole Numbers by Proper Fractions 30. Consolidation of Operations with Fractions, Decimals, and Percents	Unit 12 Questions 11, 12, 14 (pp. 86-87)	Big Idea: Quantities and numbers can be grouped by or partitioned into equal-sized units. Partitioning quantities to form fractions - Understands the meaning of an $\frac{a}{b}$ fraction as a multiple of the unit fraction $\frac{1}{b}$ (e.g., $\frac{3}{5} = 3 \times \frac{1}{5}$). - Understands the fraction $\frac{a}{b}$ as $a \div b$. - Continues to extend fraction understanding to multiple contexts (e.g., sharing, division, ratios). Big Idea: Quantities and numbers can be operated on to determine how many and how much. Developing conceptual meaning of operations - Explores multiplication as scaling and estimates the resulting product when scaling a given number by a number less than, equal to, or greater than 1 (e.g., $\frac{1}{2} \times 12$; 5.2×12 ; 0.3×12).
B2.10 divide whole numbers by proper fractions, using appropriate tools and strategies	Number Unit 4: Operations with Fractions, Decimals, and Percents 28: Multiplying and Dividing Whole Numbers by Proper Fractions 30. Consolidation of Operations with Fractions, Decimals, and Percents	Unit 12 Questions 11, 13, 14 (pp. 86-87)	Big Idea: Quantities and numbers can be grouped by or partitioned into equal-sized units. Partitioning quantities to form fractions - Understands the meaning of an $\frac{a}{b}$ fraction as a multiple of the unit fraction $\frac{1}{b}$ (e.g., $\frac{3}{5} = 3 \times \frac{1}{5}$). - Understands the fraction $\frac{a}{b}$ as $a \div b$. - Continues to extend fraction understanding to multiple contexts (e.g., sharing, division, ratios).
B2.11 represent and solve problems involving the division of decimal numbers up to thousandths by whole	Number Unit 4: Operations with Fractions, Decimals, and Percents	Unit 12 Questions 3, 5, 14 (pp. 82-84, 87)	Big Idea: Quantities and numbers can be operated on to determine how many and how much. Developing fluency of operations



numbers up to 10, using	24: Dividing Decimals by 1-		- Solves decimal number computation using efficient
appropriate tools and	Digit Numbers		strategies.
strategies	30. Consolidation of		
	Operations with Fractions,		
	Decimals, and Percents		
B2.12 solve problems	Number Unit 2: Fluency with	Unit 3 Questions 5, 6, 7, 8,	Big Idea: Numbers are related in many ways.
involving ratios, including	Whole Numbers	9, 10, 11, 12, 13, 14	Using ratios, rates, proportions, and percents creates a
percents and rates, using	10: Unit Rates	(pp. 17-20)	relationship between quantities
appropriate tools and	11: Exploring Ratios		- Demonstrates multiplicative reasoning by applying unit
strategies	12. Consolidation of Fluency	Unit 12 Questions 7, 8, 9,	rates in whole number contexts (e.g., If she earns \$12 per
	with Whole Numbers	10, 14 (pp. 84-85, 87)	hour, how much will she earn for 5 hours of work?).
			- Understands the concept of ratio as a relationship
	Number Unit 4: Operations		between two quantities (e.g., 3 wins to 2 losses).
	with Fractions, Decimals, and		- Understands and applies the concept of unit rates (e.g.,
			If 3 kg is \$5, how much is 1 kg or how many kg for \$1?).
	Percents		- Understands and applies the concept of percentage as a
	29: Using Mental Math to		rate per 100 (e.g., calculating sales tax, tips, or discounts).
	Calculate Percents		
	30. Consolidation of		
	Operations with Fractions,		
	Decimals, and Percents		



C. Algebra

C.1 Patterns and Relationships

identify, describe, extend, create, and make predictions about a variety of patterns, including those found in real-life contexts

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Patterns	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 Unit 1: Patterning 1: Investigating Patterns and Relationships in Tables and Graphs 2: Solving Problems 3: Representing Patterns in Different Ways 4. Consolidation of Patterning	Unit 1 Questions 1, 2, 3, 4, 5, 7, 8 (pp. 2-8)	Big Idea: Regularity and repetition form patterns that can be generalized and predicted mathematically. Representing patterns, relations, and functions - Represents a numeric or shape pattern using a table of values by pairing the term value with a term number. - Represents a mathematical context or problem with expressions and equations using variables to represent unknowns. Generalizing and analyzing patterns, relations, and functions - Explains the rule for numeric patterns including the starting point and change (e.g., given: 16, 22, 28, 34, Start at 16 and add 6 each time). - Describes numeric and shape patterns using words and numbers. - Predicts the value of a given element in a numeric or shape pattern using pattern rules. - Describes the relationship between two numeric		
C1.2 create and translate repeating, growing, and shrinking patterns using various representations, including tables of values and graphs, and, for linear growing patterns, algebraic expressions and equations	Patterning Unit 1: Patterning 1: Investigating Patterns and Relationships in Tables and Graphs 2: Solving Problems 3: Representing Patterns in Different Ways 4. Consolidation of Patterning Patterning Unit 2: Variables and Equations 5: Investigating Algebraic Expressions	Unit 1 Questions 1, 2, 3, 5, 6, 7, 8 (pp. 2-8)	Big Idea: Regularity and repetition form patterns that can be generalized and predicted mathematically. Representing patterns, relations, and functions -Represents a numeric or shape pattern using a table of values by pairing the term value with a term number Represents a mathematical context or problem with expressions and equations using variables to represent unknowns. Generalizing and analyzing patterns, relations, and functions - Explains the rule for numeric patterns including the starting point and change (e.g., given: 16, 22, 28, 34, Start at 16 and add 6 each time) Describes numeric and shape patterns using words and numbers.		



	7: Representing Generalizations in Patterns 10. Consolidation of Variables and Equations		 Predicts the value of a given element in a numeric or shape pattern using pattern rules. Describes the relationship between two numeric patterns (e.g., for every 4 steps, she travels 3 metres). Big Idea: Patterns and relations can be represented with symbols, equations, and expressions. Using variables, algebraic expressions, and equations to represent mathematical relations Interprets and writes algebraic expressions (e.g., 2n means two times a number; subtracting a number from 7 can be written as 7 – n). Understands a variable as a changing quantity (e.g., 5s, where s can be any value). Writes two-variable equations to describe a relationship (e.g., 5s = t). Uses expressions and equations with variables to represent generalized relations and algorithms (e.g., P = 2l + 2w).
C1.3 determine pattern rules and use them to extend patterns, make and justify predictions, and identify missing elements in repeating, growing, and shrinking patterns, and use algebraic representations of the pattern rules to solve for unknown values in linear growing patterns	Patterning Unit 1: Patterning 1: Investigating Patterns and Relationships in Tables and Graphs 2: Solving Problems 3: Representing Patterns in Different Ways 4. Consolidation of Patterning Patterning Unit 2: Variables and Equations 5: Investigating Algebraic Expressions 7: Representing Generalizations in Patterns 10. Consolidation of Variables and Equations	Unit 1 Questions 1, 2, 3, 4, 6, 7, 8 (pp. 2-8)	Big Idea: Regularity and repetition form patterns that can be generalized and predicted mathematically. Representing patterns, relations, and functions - Represents a numeric or shape pattern using a table of values by pairing the term value with a term number. - Represents a mathematical context or problem with expressions and equations using variables to represent unknowns. Generalizing and analyzing patterns, relations, and functions - Explains the rule for numeric patterns including the starting point and change (e.g., given: 16, 22, 28, 34, Start at 16 and add 6 each time). - Describes numeric and shape patterns using words and numbers. - Predicts the value of a given element in a numeric or shape pattern using pattern rules. - Describes the relationship between two numeric patterns (e.g., for every 4 steps, she travels 3 metres). Big Idea: Patterns and relations can be represented with symbols, equations, and expressions.



			Using variables, algebraic expressions, and equations to represent mathematical relations - Interprets and writes algebraic expressions (e.g., $2n$ means two times a number; subtracting a number from 7 can be written as $7 - n$). - Understands a variable as a changing quantity (e.g., $5s$, where s can be any value). - Writes two-variable equations to describe a relationship (e.g., $5s = t$). - Uses expressions and equations with variables to represent generalized relations and algorithms (e.g., $P = 2l + 2w$).
C1.4 create and describe patterns to illustrate relationships among whole numbers and decimal numbers	Patterning Unit 1: Patterning 2: Solving Problems 4. Consolidation of Patterning	N/A	Big Idea: Regularity and repetition form patterns that can be generalized and predicted mathematically. Representing patterns, relations, and functions - Represents a numeric or shape pattern using a table of values by pairing the term value with a term number. - Represents a mathematical context or problem with expressions and equations using variables to represent unknowns. Generalizing and analyzing patterns, relations, and functions - Explains the rule for numeric patterns including the starting point and change (e.g., given: 16, 22, 28, 34, Start at 16 and add 6 each time). - Describes numeric and shape patterns using words and numbers. - Predicts the value of a given element in a numeric or shape pattern using pattern rules. - Describes the relationship between two numeric patterns (e.g., for every 4 steps, she travels 3 metres).
C.2 Equations and Inequalities		ties, and inequalities, and ann	oly this understanding in various contexts
Variables and Expressions	.s or randoles, expressions, equal	ares, and megadiness, and app	The analysis and the same and t
C2.1 add monomials with a degree of 1 that involve whole numbers, using tools	Patterning Unit 2: Variables and Equations 5: Investigating Algebraic Expressions	Unit 14 Questions 1, 2, 3 (pp. 96-97)	Big Idea: Patterns and relations can be represented with symbols, equations, and expressions. Using variables, algebraic expressions, and equations to represent mathematical relations



	10. Consolidation of Variables and Equations		 Interprets and writes algebraic expressions (e.g., 2n means two times a number; subtracting a number from 7 can be written as 7 – n). Understands a variable as a changing quantity (e.g., 5s, where s can be any value). Writes two-variable equations to describe a relationship (e.g., 5s = t). Uses expressions and equations with variables to represent generalized relations and algorithms (e.g., P = 2l + 2w).
C2.2 evaluate algebraic expressions that involve whole numbers and decimal tenths	Patterning Unit 2: Variables and Equations 5: Investigating Algebraic Expressions 10. Consolidation of Variables and Equations	Unit 13 Questions 1, 4, 5, 7, 13 (pp. 96, 98-99, 102)	Big Idea: Assigning a unit to a continuous attribute allows us to measure and make comparisons. Understanding relationships among measured units - Develops and generalizes strategies to compute area and perimeter of rectangles. - Develops and generalizes strategies to compute area of triangles, quadrilaterals, and other polygons (e.g., decomposing a parallelogram and rearranging to form a rectangle).
Equalities and Inequalities			
C2.3 solve equations that involve multiple terms and whole numbers in various contexts, and verify solutions	Patterning Unit 2: Variables and Equations 6: Investigating Equality in Equations 7: Representing Generalizations in Patterns 8: Writing and Solving	Unit 13 Questions 6, 8, 9, 10, 11, 13 (pp. 99-102)	Big Idea: Patterns and relations can be represented with symbols, equations, and expressions. Understanding equality and inequality, building on generalized properties of numbers and operations - Determines an unknown number in simple one-step equations using different strategies (e.g., $n \times 3 = 12$; $13 - \square = 8$).
	Equations 10. Consolidation of Variables and Equations		- Investigates and models the meaning of preservation of equality of single variable equations (e.g., $3x = 12$).



C3. Coding

solve problems and create computational representations of mathematical situations using coding concepts and skills

Coding Skills

C3.1 solve problems and create computational representations of mathematical situations by writing and executing efficient code, including code that involves conditional statements and other control structures

Patterning Unit 3: Coding

- 11: Altering Code for a Game
- 12: Making Shapes
- 13: Classifying Polygons
- 14: Consolidation of Coding

Unit 6 Questions 2, 4, 5, 6 (pp. 38, 41-42)

Big Idea: Assigning a unit to a continuous attribute allows us to measure and make comparisons.

Selecting and using units to estimate, measure, construct, and make comparisons

- Measures, constructs, and estimates angles using degrees.

Big Idea: 2-D shapes and 3-D solids can be analyzed and classified in different ways by their attributes. Investigating geometric attributes and properties of 2-D shapes and 3-D solids

- Sorts, describes, constructs, and classifies polygons based on side attributes (e.g., parallel, perpendicular, regular/irregular).
- Understands angle as a geometric figure formed from two rays or line segments sharing a common endpoint.

Big Idea: Objects can be located in space and viewed from multiple perspectives.

Locating and mapping objects in space

- Develops understanding of a Cartesian plane as a coordinate system using perpendicular axes.
- Plots and locates points on a Cartesian plane, and relates the location to the two axes. (Limited to the first quadrant.)

Big Idea: Formulating questions, collecting data, and consolidating data in visual and graphical displays help us understand, predict, and interpret situations that involve uncertainty, variability, and randomness Using the language and tools of chance to describe and predict events

- Investigates and calculates the experimental probability of simple events (i.e., relative frequency) of simple events (e.g., 3 heads in 5 coin tosses is $\frac{3}{5}$).



C3.2 read and alter existing	Patterning Unit 2: Coding	Unit 6 Questions 1, 3, 4	Big Idea: Assigning a unit to a continuous attribute
code, including code that	Patterning Unit 3: Coding	(pp. 37-41)	allows us to measure and make comparisons.
involves conditional	11: Altering Code for a Game	(pp. 37-41)	Selecting and using units to estimate, measure,
statements and other	12: Making Shapes		
	13: Classifying Polygons		construct, and make comparisons
control structures, and	14: Consolidation of Coding		- Measures, constructs, and estimates angles using
describe how changes to			degrees.
the code affect the outcomes and the efficiency			Big Idea: 2-D shapes and 3-D solids can be analyzed and classified in different ways by their attributes.
of the code			Investigating geometric attributes and properties of 2-D
			shapes and 3-D solids
			- Sorts, describes, constructs, and classifies polygons
			based on side attributes (e.g., parallel, perpendicular,
			regular/irregular).
			- Understands angle as a geometric figure formed from
			two rays or line segments sharing a common endpoint.
			Big Idea: Objects can be located in space and viewed
			from multiple perspectives.
			Locating and mapping objects in space
			- Develops understanding of a Cartesian plane as a
			coordinate system using perpendicular axes.
			- Plots and locates points on a Cartesian plane, and
			relates the location to the two axes. (Limited to the first quadrant.)
			Big Idea: Formulating questions, collecting data, and
			consolidating data in visual and graphical displays help
			us understand, predict, and interpret situations that
			involve uncertainty, variability, and randomness
			Using the language and tools of chance to describe and
			predict events
			- Investigates and calculates the experimental probability
			of simple events (i.e., relative frequency) of simple events
			2
			(e.g., 3 heads in 5 coin tosses is $\frac{3}{5}$).



C4. Mathematical Modelling			
Apply the process of mathem	atical modelling to represent, anal	yse, make predictions, and pro	ovide insight into real-life situations
This overall expectation has	Number	N/A	
no specific	4: Identifying Prime and		
expectations. Mathematical	Composite Numbers		
modelling is an iterative and	6: Solve Problems with Whole		
interconnected process that	Numbers		
is applied to various	14: Comparing and Ordering		
contexts, allowing students to bring in learning from	Fractions		
other strands. Students'	22: Multiplying Decimals by 1-		
demonstration of the	Digit Numbers		
process of mathematical	=		
modelling, as they apply	33: Planning for Financial Goals		
concepts and skills learned	.		
in other strands, is assessed	Patterning		
and evaluated.	8: Writing and Solving		
	Equations		
	Measurement		
	2: Determining Area		
	Data Management		
	2: Exploring Histograms		
	8: Independent Events		



D. Data **D.1 Data Literacy** manage, analyse, and use data to make convincing arguments and informed decisions, in various contexts drawn from real life **Data Collection and Organization** D1.1 describe the **Data Management Unit 1:** Unit 9 Questions 1, 5, 8 Big Idea: Formulating questions, collecting data, and difference **Data Management** (pp. 61-62, 64, 66) consolidating data in visual and graphical displays help between discrete and cont 1: Exploring Line Graphs us understand, predict, and interpret situations that inuous data, and provide 2: Exploring Histograms involve uncertainty, variability, and randomness. 6. Consolidation of Data examples of each Collecting data and organizing it into categories - Distinguishes between discrete (e.g., votes) and Management continuous (e.g., height) data. Creating graphical displays of collected data - Creates charts and graphs with appropriate titles and labels to represent data collected (e.g., bar graph, line plot, pictograph, stem-and-leaf plot). - Represents data graphically using many-to-one correspondence with appropriate scales and intervals (e.g., each symbol on pictograph represents 10 people). - Chooses and justifies appropriate visual representations for displaying discrete (e.g., bar graph) and continuous (e.g., line graph) data. D1.2 collect qualitative Data Management Unit 1: Unit 9 Questions 2, 3, 8 Big Idea: Formulating questions, collecting data, and data and discrete and **Data Management** (pp. 62-63, 66) consolidating data in visual and graphical displays help continuous quantitative 2: Exploring Histograms us understand, predict, and interpret situations that data to answer questions 3: Collecting and Organizing involve uncertainty, variability, and randomness. of interest about Data Collecting data and organizing it into categories 6. Consolidation of Data a population, and organize Constructs data organizers to support data collection (e.g., creates tally chart or line plot on a grid to collect the sets of data as Management appropriate, including survey data). using intervals - Differentiates between primary (i.e., first-hand) and secondary (i.e., second-hand) data. - Selects and justifies an appropriate method of data collection (e.g., experiment, observation, survey) based on question posed. Creating graphical displays of collected data - Represents data graphically using many-to-one correspondence with appropriate scales and intervals (e.g., each symbol on pictograph represents 10 people).



Data Visualization			- Chooses and justifies appropriate visual representations for displaying discrete (e.g., bar graph) and continuous (e.g., line graph) data. Drawing conclusions by making inferences and justifying decisions based on data collected - Draws conclusions on based data presented. - Interprets the results of data presented graphically from primary (e.g., class survey) and secondary (e.g., online news report) sources.
D1.3 select from among a variety of graphs, including histograms and brokenline 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 graph	Data Management Unit 1: Data Management 1: Exploring Line Graphs 2: Exploring Histograms 3: Collecting and Organizing Data 4: Interpreting Graphs to Solve Problems 6. Consolidation of Data Management	Unit 9 Questions 1, 2, 5, 8 (pp. 61-62, 64, 66)	Big Idea: Formulating questions, collecting data, and consolidating data in visual and graphical displays help us understand, predict, and interpret situations that involve uncertainty, variability, and randomness. Creating graphical displays of collected data - Creates charts and graphs with appropriate titles and labels to represent data collected (e.g., bar graph, line plot, pictograph, stem-and-leaf plot). - Represents data graphically using many-to-one correspondence with appropriate scales and intervals (e.g., each symbol on pictograph represents 10 people). - Chooses and justifies appropriate visual representations for displaying discrete (e.g., bar graph) and continuous (e.g., line graph) data. Using the language and tools of chance to describe and predict events - Compares and explains the differences in the relative frequencies of a given outcome in a repeated experiment (e.g., number of heads in 10 coin tosses, repeated three times).
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	Data Management Unit 1: Data Management 1: Exploring Line Graphs 2: Exploring Histograms 6. Consolidation of Data Management	N/A	Big Idea: Formulating questions, collecting data, and consolidating data in visual and graphical displays help us understand, predict, and interpret situations that involve uncertainty, variability, and randomness. Creating graphical displays of collected data - Creates charts and graphs with appropriate titles and labels to represent data collected (e.g., bar graph, line plot, pictograph, stem-and-leaf plot).



helps to tell a story about the data			- Represents data graphically using many-to-one correspondence with appropriate scales and intervals (e.g., each symbol on pictograph represents 10 people) Chooses and justifies appropriate visual representations for displaying discrete (e.g., bar graph) and continuous (e.g., line graph) data Visually represents two or more data sets (e.g., double bar chart, stacked bar graph, multi-line graph, multi-column table).
Data Analysis D1.5 determine the range	Data Management Unit 1:	Unit 9 Questions 6, 7, 8	Big Idea: Formulating questions, collecting data, and
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	Data Management 5: Determining Range and Measures of Central Tendency 6. Consolidation of Data Management	(pp. 65-66)	consolidating data in visual and graphical displays help us understand, predict, and interpret situations that involve uncertainty, variability, and randomness. Reading and interpreting data displays and analyzing variability - Determines range values (e.g., maximum, minimum, difference) and relates values to the variability of data collected. - Visualizes and determines the median value as a middle measure representing a whole data set. - Visualizes and determine the mean of a data set. - Understands that measures of central tendency (i.e., mode, median, mean) are summary measures that represent all values in a data set with a single number (i.e., most frequent value; middle value; balance point of values). - Understands and describes the difference between the central tendency values (i.e., mode, median, mean) and explores which measure is most appropriate for the data collected. Using the language and tools of chance to describe and predict events - Describe data using frequency counts (e.g., 5 people chose peppermint) and modal value (e.g., dogs are the most common pet).



D1.6 analyse different sets of data presented in various ways, including in histograms and brokenline 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 Unit 1: Data Management 1: Exploring Line Graphs 2: Exploring Histograms 4: Interpreting Graphs to Solve Problems 6. Consolidation of Data Management	Unit 9 Questions 1, 2, 4, 5, 8 (pp. 61-64, 66)	Big Idea: Formulating questions, collecting data, and consolidating data in visual and graphical displays help us understand, predict, and interpret situations that involve uncertainty, variability, and randomness. Drawing conclusions by making inferences and justifying decisions based on data collected - Draws conclusions based on data presented. - Uses inferences to make predictions about future events (e.g., Would the pictograph of shoe types look the same every day?). - Interprets the results of data presented graphically from primary (e.g., class survey) and secondary (e.g., online news report) sources. - Interprets results and makes inferences about the similarities and differences of past and future events based on data collected.
D2. Probability describe the likelihood that Probability	events will happen, and use that in	formation to make prediction	
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 Unit 2: Probability 7: Exploring Theoretical Probability 8: Independent Events 9: Conducting Experiments 10. Consolidation of Probability Patterning Unit 3: Coding 11: Altering Code for a Game	Unit 10 Questions 1, 2, 3, 4, 5, 6, 7, 8 (pp. 67-72)	Big Idea: Formulating questions, collecting data, and consolidating data in visual and graphical displays help us understand, predict, and interpret situations that involve uncertainty, variability, and randomness. Using the language and tools of chance to describe and predict events - Locates the likelihood of outcomes on a vocabulary-based probability continuum (e.g., impossible, unlikely, likely, certain). - Distinguishes between equally likely events (e.g., heads or tails on a fair coin) unequally likely events (e.g., spinner with differently sized sections). - Identifies the sample space of independent events in an experiment (e.g., flipping a cup, drawing a coloured cube from a bag). - Investigates and calculates the experimental probability (i.e., relative frequency) of simple events (e.g., 3 heads in 5 coin tosses is $\frac{3}{5}$). - Determines theoretical probability as a ratio (i.e., number of outcomes for a given event to total number of



			possible outcomes). - Uses theoretical probability to predict the outcome of an experiment or game. - Extends understanding of the probability continuum by expressing and comparing probabilities using decimals (between 0 and 1), ratios, fractions, and percents.
D2.2 determine and compare the theoretical and experimental probabilities of two independent events happening	Data Management Unit 2: Probability 8: Independent Events 9: Conducting Experiments 10. Consolidation of Probability	Unit 10 Questions 5, 7, 8 (pp. 70-72)	Big Idea: Formulating questions, collecting data, and consolidating data in visual and graphical displays help us understand, predict, and interpret situations that involve uncertainty, variability, and randomness. Collecting data and organizing it into categories Records the results of multiple trials of simple events. Using the language and tools of chance to describe and predict events Identifies the sample space of independent events in an experiment (e.g., flipping a cup, drawing a coloured cube from a bag). Investigates and calculates the experimental probability (i.e., relative frequency) of simple events (e.g., 3 heads in 5 coins tosses is $\frac{3}{5}$). Compares and explains the differences in the relative frequencies of a given outcome in a repeated experiment (e.g., number of heads in 10 coins tosses repeated three times). Determines theoretical probability as a ratio (i.e., number of outcomes for a given event to total number of possible outcomes). Uses theoretical probability to predict the outcome of an experiment or game. Extends understanding of the probability continuum by expressing and comparing probabilities using decimals (between 0 and 1), ratios, fractions, and percents.



E. Spatial Sense

E1. Geometric and Spatial Reasoning

describe and represent shape, location, and movement by applying geometric properties and spatial relationships in order to navigate the world around them

tnem			
Geometric Reasoning			
E1.1 create lists of the	Geometry Unit 1B: 2-D Shapes,	Unit 4 Questions 8, 9, 10,	Big Idea: 2-D shapes and 3-D solids can be analyzed and
geometric properties of	Angles, and 3-D Solids	11, 12 (pp. 27-29)	classified in different ways by their attributes.
various types	3: Properties of Quadrilaterals		Investigating geometric attributes and properties of 2-D
of quadrilaterals, including	5. Consolidation of 2-D Shapes,		shapes and 3-D solids
the properties of	Angles, and 3-D Solids		- Sorts, describes, constructs, and classifies polygons
the diagonals, rotational			based on side attributes (e.g., parallel, perpendicular,
symmetry, and line			regular/irregular).
symmetry			- Sorts, describes, and classifies 2-D shapes based on their
			geometric properties (e.g., side lengths, angles,
			diagonals).
			- Classifies 2-D shapes within a hierarchy based on their
			properties (e.g., rectangles are a subset of
			parallelograms).
			Big Ideas: 2-D shapes and 3-D solids can be transformed
			in many ways and analyzed for change.
			Exploring symmetry to analyze 2-D shapes and 3-D solids
			- Explores and classifies quadrilaterals based on lines of
			symmetry.
			- Draws, creates, and identifies shapes that have
			rotational symmetry, and identifies the centre of rotation
			and angle of rotation.
E1.2 construct three-	Geometry Unit 1B: 2-D Shapes,	N/A	Big Idea: Objects can be located in space and viewed
dimensional objects when	Angles, and 3-D Solids		from multiple perspectives.
given their top, front, and	4: Constructing 3-D Objects		Viewing and representing objects from multiple
side views	5. Consolidation of 2-D Shapes,		perspectives
	Angles, and 3-D Solids		- Interprets and creates coded plans, and constructs
			objects from plans (e.g., used linking cubes to build 3-D
			object from plan).



Location and Movement			
E1.3 plot and	Geometry Unit 2B:	Unit 5 Questions 1, 2, 5, 6	Big Idea: The set of real numbers is infinite.
read coordinates in all four	Transformations	(pp. 30-31, 33)	Extending whole number understanding to the set of
quadrants of a Cartesian	6: Plotting and Reading		real numbers
plane, and describe	Coordinates		- Extends whole number understanding to negative
the translations that move	10. Consolidation of		numbers.
a point from one	Transformations		Big Idea: Objects can be located in space and viewed
coordinate to another			from multiple perspectives.
			Locating and mapping objects in space
			- Develops understanding of a Cartesian plane as a
			coordinate system using perpendicular axes.
			- Plots and locates points on a Cartesian plane, and
			relates the location to the two axes. (Limited to the first
			quadrant).
			- Analyzes and locates the vertices of 2-D shapes after
			transformation on a Cartesian plane. (Limited to the first
			quadrant).
E1.4 describe and perform	Geometry Unit 2B:	Unit 5 Questions 3, 4, 9	Big Idea: 2-D shapes and 3-D solids can be transformed
combinations of	Transformations	(pp. 31-32, 36)	in many ways and analyzed for change.
translations, reflections,	7: Transformations on a Grid		Exploring 2-D shapes and 3-D solids by applying and
and rotations up to	8: Rotating 2-D Shapes up to		visualizing transformations
360° on a grid, and predict	360°		- Identifies, describes, applies, and creates a combination
the results of these	9: Combining Transformations		of successive transformations on 2-D shapes.
transformations	on a Grid		
	10. Consolidation of		
	Transformations		
E2. Measurement			
	ermine measurements in various of	contexts	
The Metric System	BA	Huit 42 Overtion 4-2	District Assistant as a surface
E2.1 measure length,	Measurement Unit 1B:	Unit 13 Question 1, 2	Big Idea: Assigning a unit to a continuous attribute
area, mass, and capacity using the appropriate	Length, Mass, Capacity, and Area	(pp. 88-89)	allows us to measure and make comparisons. Selecting and using units to estimate, measure,
metric units, and solve	1: Relationships Among		construct, and make comparisons
problems that require	Metric Units		- Chooses the most appropriate unit to measure a given
converting smaller units to	4. Consolidation of Length,		attribute of an object (e.g., classroom area measured in
larger units, and vice versa	Mass, Capacity, and Area		square metres).
larger arms, and vice versa	ividus, capacity, and Area		Understanding relationships among measured units
			- Understands and applies the multiplicative relationships
			among metric units of length, mass, and capacity.
		l	among means of length, mass, and capacity.



Angles			
E2.2 use a protractor to measure and construct angles up to 360°, and state the relationship between angles that are measured clockwise and those that are measured counterclockwis e	Geometry Unit 1B: 2-D Shapes, Angles, and 3-D Solids 1: Measuring and Constructing Angles 5. Consolidation of 2-D Shapes, Angles, and 3-D Solids	Unit 4 Questions 1, 2, 3, 12 (pp. 23-25, 29)	Big Idea: Assigning a unit to a continuous attribute allows us to measure and make comparisons. Selecting and using units to estimate, measure, construct, and make comparisons - Measures, constructs, and estimates angles using degrees. Big Idea: 2-D shapes and 3-D solids can be analyzed and classified in different ways by their attributes. Investigating geometric attributes and properties of 2-D shapes and 3-D solids - Understands angle as a geometric figure formed from two rays or line segments sharing a common endpoint. - Draws, compares, and classifies angles (i.e., right, acute, obtuse, straight, reflex).
E2.3 use the properties of supplementary angles, complementary angles, opposite angles, and interior and exterior angles to solve for unknown angle measures	Geometry Unit 1B: 2-D Shapes, Angles, and 3-D Solids 2: Angle Properties and Relationships 5. Consolidation of 2-D Shapes, Angles, and 3-D Solids	Unit 4 Question 4 (p. 25)	
Area and Surface Area			
E2.4 determine the areas of trapezoids, rhombuses, kites, and composite polygons by decomposing them into shapes with known areas	Measurement Unit 1B: Length, Mass, Capacity, and Area 2: Determining Area 4. Consolidation of Length, Mass, Capacity, and Area	Unit 13 Questions 3, 4, 5, 6, 7, 13 (pp. 89-92, 95)	Big Idea: Many things in our world (e.g., objects, spaces, events) have attributes that can be measured and compared. Understanding attributes that can be measured, compared, and ordered - Understands area is additive (e.g., the area of an irregular shape can be solved by decomposing it into rectangles and adding their areas). Big Idea: Assigning a unit to a continuous attribute allows us to measure and make comparisons. Understanding relationships among measured units - Develops and generalizes strategies to compute area of triangles, quadrilaterals, and other polygons (e.g., decomposing a parallelogram and rearranging to form a rectangle).



E2.5 create and use nets to	Measurement Unit 1B:	N/A	Big Idea: Many things in our world (e.g., objects, spaces,
demonstrate the	Length, Mass, Capacity, and		events) have attributes that can be measured and
relationship between	Area		compared.
the faces of prisms and pyr	3: Surface Area of Prisms and		Understanding attributes that can be measured,
amids and their surface	Pyramids		compared, and ordered
areas	4. Consolidation of Length,		- Understands surface area is an attribute of 3-D objects
	Mass, Capacity, and Area		that can be measured and compared.
			Big Idea: Assigning a unit to a continuous attribute
			allows us to measure and make comparisons.
			Understanding relationships among measured units
			- Uses nets to determine the surface area of 3-D objects
			composed of rectangles and triangles.
E2.6 determine the surface	Measurement Unit 1B:	Unit 13 Questions 9, 11, 12,	Big Idea: Many things in our world (e.g., objects, spaces,
areas of prisms and	Length, Mass, Capacity, and	13 (pp. 92-95)	events) have attributes that can be measured and
pyramids by calculating	Area		compared.
the areas of their two-	3: Surface Area of Prisms and		Understanding attributes that can be measured,
dimensional faces and	Pyramids		compared, and ordered
adding them together	4. Consolidation of Length,		- Understands surface area is an attribute of 3-D objects
	Mass, Capacity, and Area		that can be measured and compared.
			Big Idea: Assigning a unit to a continuous attribute
			allows us to measure and make comparisons.
			Understanding relationships among measured units
			- Uses nets to determine the surface area of 3-D objects
			composed of rectangles and triangles.



Financial Literacy			
F1. Money and Finances			
demonstrate the knowledge	and skills needed to make inform	ned financial decisions	
Money Concepts			
F1.1 describe the advantages and disadvantages of various methods of payment that can be used to purchase goods and services	Number Unit 5: Financial Literacy 31: Advantages and Disadvantages of Payment Methods 34. Consolidation of Financial Literacy	Unit 11 Questions 1, 2, 3 (pp. 73-74)	
Financial Management			
F1.2 identify different types of financial goals, including earning and savin g goals, and outline some key steps in achieving them	Number Unit 5: Financial Literacy 33: Planning for Financial Goals 34. Consolidation of Financial Literacy	Unit 11 Questions 8, 9, 10, 11 (pp. 76-78)	Big Idea: Numbers are related in many ways. Using ratios, rates, proportions, and percents creates a relationship between quantities - Understands and applies the concept of percentage as a rate per 100 (e.g., calculating sales tax, tips, or discounts). Big Idea: Quantities and numbers can be operated on to determine how many and how much. Developing fluency of operations - Estimates sums and differences of decimal numbers (e.g., calculating cost of transactions involving dollars and cents) Solves decimal number computation using efficient strategies.
F1.3 identify and describe various factors that may help or interfere with reaching financial goals	Number Unit 5: Financial Literacy 33: Planning for Financial Goals 34. Consolidation of Financial Literacy	Unit 11 Questions 9, 10 (pp. 76-77)	



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	Number Unit 5: Financial Literacy 32: Interest Rates and Fees 34. Consolidation of Financial Literacy	Unit 11 Questions 4, 5, 6 (p. 75)	Big Idea: Numbers are related in many ways. Using ratios, rates, proportions, and percents creates a relationship between quantities - Understands and applies the concept of percentage as a rate per 100 (e.g., calculating sales tax, tips, or discounts).
F1.5 describe trading, lending, b orrowing, and donating as different ways to distribute financial and other resources among individuals and organizations	Number Unit 5: Financial Literacy 31: Advantages and Disadvantages of Payment Methods 34. Consolidation of Financial Literacy	Unit 11 Question 1 (p. 73)	

