

#### **Correlation of Prince Edward Island Program of Studies with Mathology Grade 4 (Number)**

Curriculum Expectations	Grade 4 Mathology.ca	Mathology Practice Workbook 4	Pearson Canada Grades 4-6 Mathematics Learning Progression
General Curriculum Outcome: Develop number sense.			
Specific Curriculum Outcomes N1: Represent and describe whole numbers to 10 000, concretely, pictorially and symbolically.	Number Unit 1: Number Relationships and Place Value 1: Representing Numbers to 10 000 2: Composing and Decomposing Larger Numbers 6: Consolidation of Number Relationships and Place Value	Unit 2 Questions 1, 2, 3, 4, 5, 6, 7, 8, 9, 15 (pp. 8-11, 13)	Big Idea: Numbers are related in many ways.  Decomposing and composing numbers to investigate equivalencies  - Composes and decomposes whole numbers using standard and non-standard partitioning (e.g., 1000 is 10 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  - 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.
N2: Compare and order numbers to 10 000.	Number Unit 1: Number Relationships and Place Value 4: Comparing and Ordering Numbers 6: Consolidation of Number Relationships and Place Value	Unit 2 Questions 10, 11, 12, 16 (pp. 11-13)	Big Idea: Numbers are related in many ways.  Comparing and ordering quantities (multitude or magnitude)  - Compares, orders, and locates whole numbers based on place-value understanding and records using <, =, > symbols.



N3: Demonstrate an understanding of addition of numbers with answers to 10 000 and their corresponding subtractions (limited to 3- and 4-digit numerals) by:  • using personal strategies for adding and subtracting  • estimating sums and differences  • solving problems involving addition and subtraction.	Number Unit 2: Fluency with Addition and Subtraction 7: Estimating Sums and Differences 8: Modelling Addition and Subtraction 9: Adding and Subtracting Larger Numbers 10: Using Mental Math to Add and Subtract 11: Creating and Solving Problems 12: Consolidation of Fluency with Addition and Subtraction	Unit 3 Questions 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 (pp. 14-20)  Unit 14 Questions 2, 9 (pp. 91, 95)	Big Idea: Quantities and numbers can be operated on to determine how many and how much.  Investigating number and arithmetic properties  Recognizes and generates equivalent numerical expressions using commutative and associative properties.  - Understands operation relationships (e.g., inverse relationship between multiplication/division, addition/subtraction).  - Understands the identity of operations (e.g., 5 + 0 = 5; 7 × 1 = 7).  Developing conceptual meaning of operations  - Models and develops meaning for whole number computation to four digits.  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,
N4: Explain the properties of 0 and 1 for multiplication and the property of 1 for division.	Number Unit 5: Fluency with Multiplication and Division Facts 24: Strategies for Multiplication 27: Strategies for Division 29: Consolidation of Fluency with Multiplication and Division Facts	Unit 15 Questions 1, 11 (pp. 99, 103)	Big Idea: Quantities and numbers can be operated on to determine how many and how much.  Investigating number and arithmetic properties  - Understands the identity of operations (e.g., 5 + 0 = 5; 7 × 1 = 7).



N5: Describe and apply mental mathematics strategies, such as:  • skip counting from a known fact • using doubling or halving • using doubling or halving and adding or subtracting one more group • using patterns in the 9s facts • using repeated doubling to determine basic multiplication facts to 9 × 9 and related division facts.	Number Unit 5: Fluency with Multiplication and Division Facts 24: Strategies for Multiplication 25: Solving Multiplication Problems 26: Relating Multiplication and Division 27: Strategies for Division 29: Consolidation of Fluency with Multiplication and Division Facts  Patterning Unit 1: Patterns and Relations 4: Investigating Number Relationships	Unit 15 Questions 1, 2, 3, 4, 11 (pp. 99-100, 103)	Big Idea: Quantities and numbers can be operated on to determine how many and how much.  Investigating number and arithmetic properties  - Recognizes and generates equivalent numerical expressions using commutative and associative properties.  - Understands operational relationships (e.g., inverse relationship between multiplication/division, addition/subtraction).  Developing fluency of operations  - Fluently recalls multiplication and division facts to 100.
N6: Demonstrate an understanding of multiplication (2- or 3-digit by 1-digit) to solve problems by:  • using personal strategies for multiplication with and without concrete materials • using arrays to represent multiplication • connecting concrete representations to symbolic representations • estimating products.	Number Unit 6: Multiplying and Dividing Larger Numbers 30: Exploring Strategies for Multiplying 31: Estimating Products 35: Consolidation of Multiplying and Dividing Larger Numbers	Unit 18 Questions 1, 3, 4, 5, 7, 9, 10 (pp. 117-120)	Big Idea: Quantities and numbers can be operated on to determine how many and how much.  Developing conceptual meaning of operations  - Models and develops meaning for whole number computation to four digits.  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).



N7: Demonstrate an understanding of division (1-digit divisor and up to 2-digit dividend) to solve problems by:  • using personal strategies for dividing with and without concrete materials  • estimating quotients  • relating division to multiplication.	Number Unit 5: Fluency with Multiplication and Division Facts 26: Relating Multiplication and Division 27: Strategies for Division 29: Consolidation of Fluency with Multiplication and Division Facts  Number Unit 6: Multiplying and Dividing Larger Numbers 32: Exploring Strategies for Dividing 33: Estimating Quotients 34: Dividing with Remainders 35: Consolidation of Multiplying and Dividing Larger Numbers	Unit 18 Questions 1, 4, 5, 8, 9, 11, 12, 13, 14 (pp. 117-122)	Big Idea: Quantities and numbers can be operated on to determine how many and how much.  Developing conceptual meaning of operations  - Models and develops meaning for whole number computation to four digits.  Developing fluency of operations  - Estimates the results 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).
N8: Demonstrate an understanding of fractions less than or equal to one by using concrete and pictorial representations to:  • name and record fractions for the parts of a whole or a set  • compare and order fractions  • model and explain that for different wholes, two identical fractions may not represent the same quantity  • provide examples of where fractions are used.	Number Unit 3: Fractions 13: What Are Fractions? 14: Counting by Unit Fractions 15: Exploring Different Representations of Fractions 17: Exploring Equivalence in Fractions 18: Comparing and Ordering Fractions 19: Consolidation of Fractions	Unit 8 Questions 1, 2, 8, 9, 10, 11, 12, 13 (pp. 50-51, 53-55)	Big Idea: Numbers are related in many ways. Comparing and ordering quantities (multitude or magnitude)  - Compares, orders, and locates fractions with the same numerator or denominator using reasoning (e.g., $\frac{3}{5} > \frac{3}{6}$ ) because fifths are larger parts).  Estimating quantities and numbers  - Estimates the size and magnitude of fractions by comparing to benchmarks.  Big Idea: Quantities and numbers can be grouped by or partitioned into equal-sized units.  Partitioning quantities to form fractions  - Partitions fractional parts into smaller fractional parts (e.g., partitions halves into thirds to create sixths).  - Uses models to describe, name, and count forward and backward by unit fractions.  - Explains that two equivalent fractions represent the same part of a whole, but not necessarily equal



N9: Represent and describe decimals (tenths and hundredths), concretely, pictorially and symbolically.	Number Unit 4: Decimals 20: Exploring Tenths 21: Exploring Hundredths 23: Consolidation of Decimals	Unit 9 Questions 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 18 (pp. 56-60, 62)	quantities (e.g., $\frac{1}{2}$ of a set of 12 and $\frac{1}{2}$ of a set of 6 are equal fractions, but unequal quantities).  Big Idea: The set of real numbers is infinite. Extending whole number understanding to the set of real numbers  - Explores decimal fractions to tenths (e.g., 0.1, 0.5, 0.8) and hundredths (e.g., 0.42, 0.05, 0.90).  Big Idea: Numbers are related in many ways. Estimating quantities and numbers  - Estimates the location of decimals and fractions on a number line.  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).  - Counts forwards and backwards by decimal units (e.g., 0.1, 0.2, 0.9, 1.0).  - 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).
N10: Relate decimals to fractions (to hundredths).	Number Unit 4: Decimals 20: Exploring Tenths 21: Exploring Hundredths 23: Consolidation of Decimals	Unit 9 Questions 2, 3, 15, 18 (fractions and decimals only) (pp. 57, 61-62)	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).



N11: Demonstrate an **Number Unit 7: Operations** Unit 11 Questions 1, 2, 3, 4, 5, Big Idea: Quantities and numbers can be operated on understanding of addition and 6, 7, 8, 9, 12 (pp. 69-74) to determine how many and how much. with Fractions and Decimals subtraction of decimals (limited **Developing conceptual meaning of operations** 36: Estimating Sums and to hundredths) by: Unit 14 Questions 1, 9 - Demonstrates an understanding of decimal number Differences with Decimals (pp. 90-91, 95) computation through modelling and flexible strategies. • using compatible 37: Adding and Subtracting **Developing fluency of operations** numbers Decimals - Estimates sums and differences of decimal numbers estimating sums and 38: Using Mental Math to Add (e.g., calculating cost of transactions involving dollars differences and Subtract Decimals and cents). using mental math strategies to solve 39: Consolidation of - Solves decimal number computation using efficient problems. strategies. Operations with Fractions and Decimals





### Correlation of Prince Edward Island Program of Studies with Mathology Grade 4 (Patterns and Relations: Patterns)

Curriculum Expectations	Grade 4 Mathology.ca	Mathology Practice Workbook 4	Pearson Canada Grades 4-6 Mathematics Learning Progression
General Curriculum Outcome:	•		
Use patterns to describe the wor	rld and solve problems.		
Specific Curriculum Outcomes PR1: Identify and describe patterns found in tables and charts, including a multiplication chart.	Patterning Unit 1: Patterns and Relations 2: Investigating Increasing and Decreasing Patterns 3: Representing Patterns 4: Investigating Number Relationships 6: Consolidation of Patterns and Relations	Unit 1 Questions 1, 3, 4, 12 (pp. 2-4, 7)	Big Idea: Regularity and repetition form patterns that can be generalized and predicted mathematically. Representing patterns, relations, and functions  - Describes, generates, extends, translates, and corrects number and shape patterns that follow a predetermined rule.  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.
PR2: Reproduce a pattern found in a table or chart using concrete materials.	Patterning Unit 1: Patterns and Relations 3: Representing Patterns 6: Consolidation of Patterns and Relations	Unit 1 Question 4 (p.4)	Big Idea: Regularity and repetition form patterns that can be generalized and predicted mathematically.  Representing patterns, relations, and functions  - Describes, generates, extends, translates, and corrects number and shape patterns that follow a predetermined rule.  - Uses multiple approaches to model situations involving repetition (i.e., repeating patterns) and change (i.e., increasing/decreasing patterns) (e.g., using objects, tables, graphs, symbols, loops and nested loops in coding).



PR3: Represent and describe patterns and relationships using charts and tables to solve problems.	Patterning Unit 1: Patterns and Relations 2: Investigating Increasing and Decreasing Patterns 3: Representing Patterns 6: Consolidation of Patterns and Relations	Unit 1 Questions 1, 5, 12 (pp. 2, 4, 7)	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.  Big Idea: Regularity and repetition form patterns that can be generalized and predicted mathematically. Representing patterns, relations, and functions  - Describes, generates, extends, translates, and corrects number and shape patterns that follow a predetermined rule.  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.
PR4: Identify and explain mathematical relationships using charts and diagrams to solve problems.	Pattern Unit 1: Patterns and Relations 4: Investigating Number Relationships 5: Sorting in Venn Diagrams and Carroll Diagrams 6: Consolidation of Patterns and Relations	Unit 1 Questions 6, 7, 8 (p. 5)	Big Idea: Regularity and repetition form patterns that can be generalized and predicted mathematically. Representing patterns, relations, and functions  - Describes, generates, extends, translates, and corrects number and shape patterns that follow a predetermined rule.  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.





### Correlation of Prince Edward Island Program of Studies with Mathology Grade 4 (Patterns and Relations: Variables and Equations)

Curriculum Expectations	Grade 4 Mathology.ca	Mathology Practice Workbook 4	Pearson Canada Grades 4-6 Mathematics Learning Progression
General Curriculum Outcome:			
Represent algebraic expressions	in multiple ways.		
Specific Curriculum Outcomes PR5: Express a given problem as an equation in which a symbol is used to represent an unknown number.	Patterning Unit 2: Variables and Equations 7: Using Symbols 8: Solving Equations Concretely 9: Solving Addition and Subtraction Equations 11: Solving Multiplication and Division Equations 12: Using Equations to Solve Problems 13: Consolidation of Variables and Equations	Unit 17 Questions 1, 3, 4, 5, 6, 11 (pp. 111-114, 116)	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  - Expresses a one-step mathematical problem as an equation using a symbol or letter to represent an unknown number (e.g., Sena had some tokens and used four. She has seven left: $\Box - 4 = 7$ ).  Using variables, algebraic expressions, and equations to represent mathematical relations  - Understands an unknown quantity (i.e., variable) may be represented by a symbol or letter (e.g., $13 - \Box = 8$ ; $4n = 12$ ).  - Flexibly uses symbols and letters to represent unknown quantities in equations (e.g., knows that $4 + \Box = 7$ ; $4 + x = 7$ ; and $4 + y = 7$ all represent the same equation with $\Box$ , $x$ , and $y$ representing the same value).  - 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).



PR6: Solve one-step equations involving a symbol to represent	Patterning Unit 2: Variables and Equations	Unit 17 Questions 3, 4, 5, 6, 7, 11 (pp. 113-114, 116)	Big Idea: Patterns and relations can be represented with symbols, equations, and expressions.
an unknown number.	8: Solving Equations Concretely 9: Solving Addition and Subtraction Equations 11: Solving Multiplication and Division Equations 12: Using Equations to Solve Problems 13: Consolidation of Variables and Equations		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., $n \times 3 = 12$ ; $13 - \square = 8$ ).  - Uses arithmetic properties to investigate and transform one-step addition and multiplication equations (e.g., $5 + 4 = 9$ and $5 + a = 9$ have the same structure and can be rearranged in similar ways to maintain equality: $4 + 5 = 9$ and $a + 5 = 9$ ).  - Uses arithmetic properties to investigate and transform one-step subtraction and division equations (e.g., $12 - 5 = 7$ and $12 - b = 7$ have the same structure and can be rearranged in similar ways to maintain equality: $12 - 7 = 5$ and $12 - 7 = b$ ).





### Correlation of Prince Edward Island Program of Studies with Mathology Grade 4 (Shape and Space: Measurement)

Curriculum Expectations	Grade 4 Mathology.ca	Mathology Practice Workbook 4	Pearson Canada Grades 4-6 Mathematics Learning Progression			
General Outcome:						
Use direct and indirect measure	to solve problems.					
Specific Outcomes SS1: Read and record time using digital and analog clocks, including 24-hour clocks.	Measurement Unit 3: Time  12: Exploring Time  13: Telling Time in One- and Five-Minute Intervals  14: Telling Time on a 24- Hour Clock  16: Exploring Elapsed Time  18: Consolidation of Time	Unit 10 Questions 1, 2, 3, 4, 5, 6, 13 (pp. 63-65, 68)	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  - Reads and records time (i.e., digital and analogue) and calendar dates.  Understanding relationships among measured units  - Understands relationship among different measures of time (e.g., seconds, minutes, hours, days, decades).			
SS2: Read and record calendar dates in a variety of formats.	Measurement Unit 3: Time 17: Exploring Calendar Dates 18: Consolidation of Time	N/A	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  - Reads and records time (i.e., digital and analogue) and calendar dates.  Understanding relationships among measured units  - Understands relationship among different measures of time (e.g., seconds, minutes, hours, days, decades).			



SS3: Demonstrate an **Measurement Unit 1:** Unit 16 Questions 5, 6, 7, 8, 9, Big Idea: Many things in our world (e.g., objects, understanding of area of 10, 11 (pp. 106-110) spaces, events) have attributes that can be measured Length, Perimeter, and Area regular and irregular 2-D and compared. 4: Estimating and Measuring shapes by: Understanding attributes that can be measured, Area in Square Metres · recognizing that area compared, and ordered 5: Estimating and Measuring - Understands area as an attribute of 2-D shapes that can is measured in square Area in Square Centimetres be measured and compared. units 6: Exploring the Area of Big Idea: Assigning a unit to a continuous attribute selecting and justifying referents Rectangles allows us to measure and make comparisons. for the units cm<sup>2</sup> or Selecting and using units to estimate, measure, 7: Consolidation of Length,  $m^2$ construct, and make comparisons Perimeter, and Area - Develops understanding of square units (e.g., square estimating area by unit, square cm, square m) to measure area of 2-D using referents for cm<sup>2</sup> or m<sup>2</sup> shapes. determining and recording area (cm<sup>2</sup> or m<sup>2</sup>) constructing different rectangles for a given area (cm<sup>2</sup> or m<sup>2</sup>) in order to demonstrate that many different rectangles may have the same area.





#### Correlation of Prince Edward Island Program of Studies with Mathology Grade 4 (Shape and Space: 3-D Objects and 2-D Shapes)

Curriculum Expectations	Grade 4 Mathology.ca	Mathology Practice	Pearson Canada Grades 4-6 Mathematics Learning
		Workbook 4	Progression
General Curriculum Outcome:			
Describe the characteristics of 3	-D objects and 2-D shapes, and a	nalyze the relationships among t	hem.
Specific Curriculum Outcomes SS4: Describe and construct rectangular and triangular prisms.	Geometry Unit 1A: 2-D Shapes and 3-D Solids 2: Identifying and Describing Prisms 3: Constructing Models of Prisms 5: Consolidation of 2-D Shapes and 3-D Solids	Unit 5 Questions 3, 4, 14 (pp. 28-29, 34)	Big Ideas: 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 3-D objects based on edges, faces, vertices, and angles (e.g., prisms, pyramids). Investigating 2-D shapes, 3-D solids, and their attributes through composition and decomposition - Identifies and constructs nets for 3-D objects made from triangles and rectangles.





## Correlation of Prince Edward Island Program of Studies with Mathology Grade 4 (Shape and Space: Transformations)

Curriculum Expectations	Grade 4 Mathology.ca	Mathology Practice Workbook 4	Pearson Canada Grades 4-6 Mathematics Learning Progression
General Curriculum Outcome:			
Describe and analyse position an	nd motion of objects and shape	es.	
Specific Curriculum Outcomes SS5: Demonstrate an understanding of line symmetry by:  • identifying symmetrical 2-D shapes • creating symmetrical 2-D shapes • drawing one or more lines of symmetry in a 2-D shape.	Geometry Unit 1A: 2-D Shapes and 3-D Solids 4: Understanding Line Symmetry 5: Consolidation of 2-D Shapes and 3-D Solids	Unit 5 Questions 5, 6, 7, 14 (pp. 29-30, 34)	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  - Draws and identifies lines of symmetry (i.e., vertical, horizontal, diagonal, oblique) in 2-D shapes and designs.
SS6: Demonstrate an understanding of congruency, concretely and pictorially.	Geometry Unit 1A: 2-D Shapes and 3-D Solids 1: Exploring Congruence 5: Consolidation of 2-D Shapes and 3-D Solids	Unit 5 Questions 1, 2, 14 (pp. 27, 34)	Big Ideas: 2-D shapes and 3-D solids can be transformed in many ways and analyzed for change.  Exploring 2-D shapes and 3-D solids by applying and visualizing transformations  - Demonstrates an understanding of congruency (i.e., same side lengths and angles).





# Correlation of Prince Edward Island Program of Studies with Mathology Grade 4 (Statistics and Probability: Data Analysis)

Curriculum Expectations	Grade 4 Mathology.ca	Mathology Practice	Pearson Canada Grades 4-6 Mathematics Learning Progression
		Workbook 4	Fiogression
General Curriculum Outcome:			
Collect, display and analyse data to solve problems.			
Specific Curriculum	Data Management Unit 1A: Data	Unit 12 Questions 1, 2, 3, 9	Big Idea: Formulating questions, collecting data, and
Outcomes SP1: Demonstrate an understanding of manyto-one correspondence.	Management	(pp. 77-79, 83)	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
	1: Interpreting and Drawing		
	Pictographs		
	2: Interpreting and Drawing Bar Graphs		
	3: Comparing Graphs		- Reads and interprets data displays using many-to-one
	4: Consolidation of Data Management		correspondence.
SP2: Construct and	Data Management Unit 1A: Data	Unit 12 Questions 1, 2, 3, 9	Big Idea: Formulating questions, collecting data, and
interpret pictographs and bar graphs involving many-to-one correspondence to draw conclusions.	Management	(pp. 77-79, 83)	consolidating data in visual and graphical displays help us understand, predict, and interpret situations that involve uncertainty, variability, and randomness.
	1: Interpreting and Drawing		
	Pictographs		
	2: Interpreting and Drawing Bar Graphs		Creating graphical displays of collected data
	3: Comparing Graphs		- Represents data graphically using many-to-one
	, , ,		correspondence with appropriate scales and intervals
	4: Consolidation of Data Management		(e.g., each symbol on pictograph represents 10 people).
			Reading and interpreting data displays and analyzing variability
			- Reads and interprets data displays using many-to-one
			correspondence.
			Drawing conclusions by making inferences and
			justifying decisions based on data collected.
			- Draws conclusions based on data presented.



Unit 7: Coding Not required, but recommended

Unit 14: Financial Literacy Not required, but recommended

