

Correlation of Newfoundland and Labrador 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 Outcome: Develop number sense.			
Specific Outcomes 4N1 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.
4N2 Compare and order whole 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.



 4N3 Demonstrate an understanding of addition of whole 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, calculating cost of transactions and change owing, saving money to make a purchase).
4N4 Explain and apply 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).



 4N5 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.
 4N6 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 applying the distributive property. 	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).



 4N7 Demonstrate an understanding of division (1-digit divisor and 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 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).
 4N8 Demonstrate an understanding of fractions less than or equal to one by using concrete, pictorial and symbolic 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.



4N9 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)	 Explains that two equivalent fractions represent the same part of a whole, but not necessarily equal quantities (e.g., ¹/₂ of a set of 12 and 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
			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).



4N10 Relate decimals to fractions and fractions to decimals (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).
4N11 Demonstrate an understanding of addition and subtraction of decimals (limited to hundredths).	Number Unit 7: Operations with Fractions and Decimals 36: Estimating Sums and Differences with Decimals 37: Adding and Subtracting Decimals 38: Using Mental Math to Add and Subtract Decimals 39: Consolidation of Operations with Fractions and Decimals	Unit 11 Questions 1, 2, 3, 4, 5, 6, 7, 8, 9, 12 (pp. 69-74) Unit 14 Questions 1, 9 (pp. 90-91, 95)	Big Idea: Quantities and numbers can be operated on to determine how many and how much. Developing conceptual meaning of operations - Demonstrates an understanding of decimal number computation through modelling and flexible strategies. 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.





Correlation of Newfoundland and Labrador 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 Outcome: Use patterns to describe the wo						
Specific Outcomes 4PR1 Identify and describe patterns found in tables and charts, including a multiplication chart.	Patterning Unit 1: Patternsand Relations2: Investigating Increasing andDecreasing Patterns3: Representing Patterns4: Investigating NumberRelationships6: Consolidation of Patternsand 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.			
4PR2 Translate among different representations of a pattern, such as a table, a chart or concrete materials.	Patterning Unit 1: Patterns and Relations 3: Representing Patterns 6: Consolidation of Patterns and Relations	Unit 1 Questions 1, 4 (pp. 2, 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).			



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4PR3 Represent, describe and extend patterns and	Patterning Unit 1: 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
relationships, using charts and tables, to solve problems.	 2: Investigating Increasing and Decreasing Patterns 3: Representing Patterns 6: Consolidation of Patterns and Relations 		 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.
4PR4 Identify and explain mathematical relationships, using charts and diagrams, to solve problems.	Pattern Unit 1: Patterns and Relations4: Investigating Number Relationships5: Sorting in Venn Diagrams and Carroll Diagrams6: 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 Newfoundland and Labrador 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 Outcome: Represent algebraic expressions in							
Specific Outcomes 4PR5 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).				



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4PR6 Solve one-step equations involving a symbol to represent an unknown number.	Patterning Unit 2: Variables and Equations 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 3, 4, 5, 6, 7, 11 (pp. 113-114, 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 - Determines an unknown number in simple one- step equations using different strategies (e.g., $n \times 3 = 12; 13 - \Box = 8$). - 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).
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Correlation of Newfoundland and Labrador 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 measuremen	t to solve problems.		
Specific Outcomes 4SS1 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).
4SS2 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).



 4SS3 Demonstrate an understanding of area of regular and irregular 2-D shapes by: recognizing that area is measured in square units selecting and justifying referents for the units cm² or m² estimating area, using referents for cm² or m² determining and recording area (cm² or m²) constructing different rectangles for a given area (cm² or m²) in order to demonstrate that many different rectangles may have the same area. 	Measurement Unit 1: Length, Perimeter, and Area 4: Estimating and Measuring Area in Square Metres 5: Estimating and Measuring Area in Square Centimetres 6: Exploring the Area of Rectangles 7: Consolidation of Length, Perimeter, and Area	Unit 16 Questions 5, 6, 7, 8, 9, 10, 11 (pp. 106-110)	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 as an attribute of 2-D shapes that can be measured and compared. 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 - Develops understanding of square units (e.g., square unit, square cm, square m) to measure area of 2-D shapes.
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Correlation of Newfoundland and Labrador Program of Studies with Mathology Grade 4 (Shape and Space: 3-D Objects and 2-D Shapes)

Curriculum Expectations General Outcome: Describe the characteristics of 3-D ob	Grade 4 Mathology.ca	Mathology Practice Workbook 4 e the relationships among them.	Pearson Canada Grades 4-6 Mathematics Learning Progression
Specific Outcomes 4SS4 Describe and construct right rectangular and right 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 Newfoundland and Labrador 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 Outcome: Describe and analyze position and me		Unit 5 Questions 1, 2, 14	Pip Ideas: 2 Dishanes and 2 Displids san be
Specific Outcomes 4SS5 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).
 4SS6 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.





Correlation of Newfoundland and Labrador Program of Studies with Mathology Grade 4 (Statistics and Probability: Data Analysis)

Curriculum	Grade 4 Mathology.ca	Mathology Practice	Pearson Canada Grades 4-6 Mathematics Learning Progression
Expectations		Workbook 4	
General Outcome:			
· · · ·	lyze data to solve problems.	1	
Specific Outcomes	Data Management Unit 1A:	Unit 12 Questions 1, 2, 3, 9	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. Reading and interpreting data displays and analyzing variability - Reads and interprets data displays using many-to-one correspondence.
4SP1 Demonstrate an understanding of many-to-one correspondence.	Data Management	(pp. 77-79, 83)	
	1: Interpreting and Drawing		
	Pictographs		
	2: Interpreting and Drawing Bar		
	Graphs		
	3: Comparing Graphs		
	4: Consolidation of Data		
	Management		
4SP2 Construct and	Data Management Unit 1A:	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.	Data Management	(pp. 77-79 <i>,</i> 83)	 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 Represents data graphically using many-to-one correspondence with appropriate scales and intervals (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.
	1: Interpreting and Drawing		
	Pictographs		
	2: Interpreting and Drawing Bar		
	Graphs		
	3: Comparing Graphs		
	4: Consolidation of Data		
	Management		
	Wanagement		
			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

