

Mathology Grade 3 Correlation (Number) – Alberta

Organizing Idea:

Quantity is measured with numbers that enable counting, labelling, comparing, and operating.

Knowledge	Understanding	Skills & Procedures	Grade 3 Mathology	Mathology Little Books	Mathology Practice Workbook 3
For numbers in base-10, each place has 10 times the value of the place to its right.	Place value is the basis for the base- 10 system. Place value determines the value of a digit	Identify the place value of each digit in a natural number.	Number Unit 1: Number Relationships and Place Value 1: Representing Numbers to 10 000 3: Representing Larger Numbers	How Numbers Work	Unit 4 Questions 1, 3, 4, 7 (pp. 18-20)
The digits 0 to 9 indicate the number of groups in each place in a number. The value of each		Relate the values of adjacent places.	Number Unit 1: Number Relationships and Place Value 1: Representing Numbers to 10 000 3: Representing Larger Numbers	Finding Buster How Numbers Work	N/A
place in a number is the product of the digit and its place value.		Determine the value of each digit in a natural number.	Number Unit 1: Number Relationships and Place Value 1: Representing Numbers to 10 000 3: Representing Larger Numbers	How Numbers Work	Unit 4 Questions 1, 3, 7 (pp. 18-20)
composed in various ways using place value.		Express natural numbers using words and numerals.	Number Unit 1: Number Relationships and Place Value 1: Representing Numbers to 10 000 3: Representing Larger Numbers		Unit 4 Questions 2, 3, 4, 5 (pp. 18-19)



Numbers can be rounded in contexts where an exact count is not needed. The less than sign, <, and the greater than sign, >, are used to show the relationship between two	Express various compositions of a natural number using place value. Round natural numbers to various places.	Number Unit 1: NumberRelationships and Place Value2: Composing and DecomposingNumbers to10 0006: ConsolidationNumber Unit 1: NumberRelationships and Place Value4: Rounding Numbers	Finding Buster Fantastic Journeys	Unit 3 Questions 1, 2, 3, 4, 10 (pp. 13-14, 16) Unit 4 Questions 3, 4, 5, 10 (pp. 19-20, 22) Unit 4 Question 9 (p. 21)
unequal numbers. A zero in the leftmost place of a natural number	Compare and order natural numbers.	Number Unit 1: Number Relationships and Place Value 5: Comparing and Ordering Numbers	Fantastic Journeys Finding Buster Math Makes Me Laugh The Street Party	Unit 3 Questions 5, 6, 8, 9, 10, 11 (pp. 15-17) Unit 4 Questions 6, 8 (pp. 20-21)
does not change the value of the number. The dollar sign, \$, is placed to the left of	Express the relationship between two numbers using <, >, or =.	Number Unit 1: Number Relationships and Place Value 5: Comparing and Ordering Numbers		Unit 3 Question 7 (p. 15)
the dollar value in English and to the right of the dollar value in French.	Count and represent the value of a collection of nickels, dimes, and quarters as cents.	Number Unit 6: Financial Literacy 32: Counting Money		Unit 8 Questions 1, 2, 4, 5, 6, 7 (pp. 42-45)
The cent sign, ¢, is placed to the right of the cent value in English and in French.	Count and represent the value of a collection of loonies, toonies, and bills as dollars.	Number Unit 6: Financial Literacy 32: Counting Money		Unit 8 Questions 1, 4, 6 (pp. 42, 44-45)
	Recognize French and English symbolic representations of monetary values.	Number Unit 6: Financial Literacy 32: Counting Money		N/A



Knowledge	Understanding	Skills & Procedures	Grade 3 Mathology	Mathology Little Books	Mathology Practice Workbook 3
Recall of addition and subtraction number facts facilitates addition and subtraction strategies. Standard algorithms for	Addition and subtraction strategies can be chosen based on the nature of the numbers. Standard algorithms for addition and	Relate strategies for the addition and subtraction of two-digit numbers to strategies for the addition and subtraction of three-digit numbers.	Number Unit 3: Addition and Subtraction 12: Modeling Addition and Subtraction 14: Using Mental Math to Add and Subtract	Math Makes Me Laugh Planting Seeds The Street Party	Unit 5 Question 1 (p. 25)
addition and subtraction are conventional procedures based	subtraction may be used for any natural numbers.	Model regrouping by place value for addition and subtraction.	Number Unit 3: Addition and Subtraction 12: Modeling Addition and Subtraction		Unit 5 Questions 3, 7, 8, 9 10 (pp. 26, 28-29)
on place value. Estimation can be used to support addition and subtraction in		Explain the standard algorithms for addition and subtraction of natural numbers.	Number Unit 3: Addition and Subtraction 12: Modeling Addition and Subtraction	Math Makes Me Laugh The Street Party	N/A
 everyday situations, including when an exact sum or difference is not needed to check if an answer is 		Add and subtract natural numbers using standard algorithms.	Number Unit 3: Addition and Subtraction 12: Modeling Addition and Subtraction 15: Creating and Solving Problems 16: Creating and Solving Problems with Larger Numbers 17: Consolidation	Math Makes Me Laugh	Unit 5 Questions 3, 5, 7, 8 9, 10, 11, 12 (pp. 26-30)
answer is reasonable		Estimate sums and differences.	Number Unit 3: Addition and Subtraction 13: Estimating Sum and Differences 14: Using Mental Math to Add and Subtract	Calla's Jingle Dress	Unit 5 Questions 2, 4, 9 (pp. 26-27, 29)



		15: Creating and Solving Problems 16: Creating and Solving Problems with Larger Numbers 17: Consolidation		
us	sing addition and ubtraction.	Number Unit 3: Addition and Subtraction 15: Creating and Solving Problems 16: Creating and Solving Problems with Larger Numbers 17: Consolidation	Calla's Jingle Dress	Unit 5 Questions 6, 9, 10, 12 (pp. 27, 29-30)

Knowledge	Understanding	Skills & Procedures	Grade 3 Mathology	Mathology Little Books	Mathology Practice Workbook 3
Multiplication and	Quantities can be	Compose a	Number Unit 4: Early Multiplicative	Planting Seeds	Unit 16 Questions 1, 5, 8, 10
division are inverse	composed and	product using	Thinking	Sports Camp	(pp. 96, 98-100)
mathematical	decomposed through	equal groups of		Calla's Jingle Dress	(pp. 30, 38-100)
			20: Exploring Multiplication	Calla's Jiligle Diess	
operations.	multiplication and division.	objects.		Grade 2	
Multiplication is				Array's Bakery	
repeated addition.				Marbles, Alleys, Mibs, and	
				Guli!	
Multiplication can		Relate			
be interpreted in			Number Unit 4: Early Multiplicative	Calla's Jingle Dress	Unit 16 Questions 1, 2, 4, 5,
various ways		multiplication to	Thinking	Planting Seeds	8, 10 (pp. 96-100)
according to		repeated addition.	18: Exploring Repeated Addition	Sports Camp	
context, such as			19: Repeated Addition and		
 equal groups 			Multiplication		
 an array 			20: Exploring Multiplication		
an area			23: Consolidation		
		Relate	Number Unit 4: Early Multiplicative	Planting Seeds	Unit 16 Questions 2, 5, 10
Division can be		multiplication to	Thinking		(pp. 97-98, 100)
interpreted in various		skip counting.	18: Exploring Repeated Addition	<u>Grade 2</u>	
ways according to			19: Repeated Addition and	Array's Bakery	
context, such as			Multiplication	Marbles, Alleys, Mibs, and	
 equal sharing 			20: Exploring Multiplication	Guli!	
. •			23: Consolidation		



 equal grouping repeated subtraction 		Investigate multiplication by 0.	Number Unit 5: Multiplication and Division 25: Strategies for Multiplication		N/A
The order in which two quantities are multiplied does not affect the product (commutative property). The order in which two numbers are		Model a quotient by partitioning a quantity into equal groups or groups of a certain size, with or without remainders.	Number Unit 4: Early Multiplicative Thinking 21: Repeated Subtraction and Division 22: Exploring Division Number Unit 5: Multiplication and Division 28: Dividing with Remainders	Sports Camp <u>Grade 2</u> Marbles, Alleys, Mibs, and Guli!	Unit 16 Questions 8b, 9 (pp. 99-100)
divided affects the quotient. Multiplication or division by 1 results in the same number (identity property).		Visualize and model products and quotients as arrays.	Number Unit 4: Early MultiplicativeThinking20: Exploring Multiplication21: Repeated Subtraction andDivision22: Exploring Division23: ConsolidationNumber Unit 5: Multiplication andDivision26: Relating Multiplication andDivision27: Strategies for Division	<u>Grade 2</u> Array's Bakery	Unit 16 Questions 1, 3, 4, 5, 8 (pp. 96-99)
		Recognize interpretations of multiplication and division in various contexts.	Number Unit 5: Multiplication and Division 29: Solving Multiplication and Division Problems		Unit 16 Questions 2, 3, 8, 9 (pp. 97, 99-100)
Numbers can be multiplied or divided in parts (distributive property).	Sharing and grouping situations can be interpreted as multiplication or division.	Investigate multiplication and division strategies.	Number Unit 4: Early Multiplicative Thinking 19: Repeated Addition and Multiplication 20: Exploring Multiplication	Sports Camp	Unit 16 Questions 2, 3, 8, 9, 11 (pp. 99-101)



Multiplication strategies include	Multiplication and division strategies		21: Repeated Subtraction and Division		
 repeated 	can be supported by		22: Exploring Division		
additionmultiplying in	addition and subtraction.		Number Unit 5: Multiplication and Division		
parts			25: Strategies for Multiplication		
 compensation 			26: Relating Multiplication and		
•			Division		
Division strategies			27: Strategies for Division		
include		Multiply and	Number Unit 5: Multiplication and		Unit 16 Questions 2, 5, 7, 8,
		divide within 100.	Division		9, 10, 11
 repeated 			30: Building Fluency: The Games		(pp. 97-100)
subtraction			Room		
 partitioning 			25: Strategies for Multiplication		
the dividend			27: Strategies for Division		
Products can be		Verify a product	Number Unit 5: Multiplication and		N/A
expressed		or quotient using	Division		
symbolically using		inverse	26: Relating Multiplication and		
the multiplication		operations.	Division		
sign, x, factors, and			29: Solving Multiplication and		
the equal sign.			Division Problems		
the equal sign.		Determine a	Number Unit 5: Multiplication and		Unit 16 Question 8b
Quotients can be		missing quantity	Division		(p. 99)
expressed		in a product or	26: Relating Multiplication and		
symbolically using		quotient in a	Division		
the division sign, ÷,		variety of ways.		Curanta Canan	
dividend, divisor,		Express multiplication and	Number Unit 5: Multiplication and Division	Sports Camp	Unit 16 Questions 2, 4, 5, 6, 8, 9, 10
and the equal sign.		division	30: Building Fluency: The Games		(pp. 97-100)
		symbolically.	Room		(pp. 97-100)
A missing quantity		Explain the	Number Unit 5: Multiplication and		N/A
in a product or		meaning of the	Division		
quotient can be		remainder in	28: Dividing with Remainders		
represented in		various situations.	20. Dividing with Kennanders		
different ways,		Solve problems	Number Unit 5: Multiplication and	Sports Camp	Unit 16 Questions 2, 3, 8, 9,
including		using multiplication	Division		10 (pp. 97, 99-100)
• a × b = •		and division in			10 (pp. 57, 55-100)



• $a \times \bullet = c$ • $\times b = c$ • $e \div f = \bullet$ • $e \div \bullet = g$ • $\cdot \div f = g$ A remainder is the quantity left over after division.		sharing or grouping situations.	26: Relating Multiplication andDivision29: Solving Multiplication andDivision Problems	
A multiplication table shows both multiplication and division facts. Fact families are groups of related	Multiplication number facts have related division facts.	Examine patterns in multiplication and division, including patterns in multiplication tables and skip counting.	Number Unit 5: Multiplication and Division 30: Building Fluency: The Games Room	N/A
multiplication and division number facts.		Recognize families of related multiplication and division number facts.	Number Unit 5: Multiplication and Division 26: Relating Multiplication and Division 30: Building Fluency: The Games Room 31: Consolidation	Unit 16 Questions 5, 6 (p. 98)
		Recall multiplication number facts, with factors to 10, and related division facts.	Number Unit 5: Multiplication and Division 24: Multiplication and Division Fact Families 25: Strategies for Multiplication 30: Building Fluency: The Games Room	Unit 16 Question 11 (p. 101)



Knowledge	Understanding	Skills & Procedures	Grade 3 Mathology	Mathology Little Books	Mathology Practice Workbook 3
The same fraction can representFractions are numbers between natural numbers.• equal parts of one whole length, shape, or objectFractions can 	Model fractions of a whole quantity, length, shape, or object, in various ways, limited to denominators of 12 or less.	Number Unit 2: Fractions 7: Exploring Equal Parts 8: Comparing Fractions 1 10: Comparing and Ordering Fractions		Unit 12 Questions 1, 2, 3, 7 8, 9 (pp. 70-71, 73)	
	Visualize fractions as compositions of a unit fraction.	Number Unit 2: Fractions 7: Exploring Equal Parts 8: Comparing Fractions 1 9: Comparing Fractions 2		Unit 12 Questions 1, 2, 5 (pp. 70-72)	
	Identify the numerator and denominator of a fraction in various representations.	Number Unit 2: Fractions 7: Exploring Equal Parts		Unit 12 Question 5 (p. 72)	
fraction describes its composition as a number of unit	whole are inversely related.	Name a given fraction.	Number Unit 2: Fractions 7: Exploring Equal Parts		Unit 12 Question 1, 2, 3, 5 (pp. 70-72)
fractions. Fraction notation, $(\frac{a}{b})$, relates the numerator, <i>a</i> , as a number of equal	on notation, lates the rator, <i>a</i> , as a er of equal	Express fractions, including one whole, symbolically, limited to denominators of 12 or less.	Number Unit 2: Fractions 7: Exploring Equal Parts 8: Comparing Fractions 1 9: Comparing Fractions 2	Hockey Homework	Unit 12 Question 1, 2, 3, 5, 7, 8, 9 (pp. 70-73)
parts, to the denominator, b, as the total number of equal parts in the whole.	Relate various representations of the same fraction, limited to denominators of 12 or less.	Number Unit 2: Fractions 9: Comparing Fractions 2		Unit 12 Questions 1, 3 (pp. 70-71)	



Equal numerators or equal denominators can facilitate the comparison of fractions. A fraction with a numerator that is equal to its denominator is one whole. Each fraction is associated with a point on the number line.	Compare the same fraction of different-sized wholes. Compare	Number Unit 2: Fractions 8: Comparing Fractions 1 9: Comparing Fractions 2 Number Unit 2: Fractions	Hockey Homework	Unit 12 Question 4 (p. 71) Unit 12 Questions 5, 6
	different fractions of the same whole that have the same denominator.	8: Comparing Fractions 1 9: Comparing Fractions 2 10: Comparing and Ordering Fractions 11: Consolidation		(p. 72)
	Compare different fractions of the same whole that have the same numerator and different denominators.	Number Unit 2: Fractions 8: Comparing Fractions 1 9: Comparing Fractions 2 10: Comparing and Ordering Fractions 11: Consolidation		Unit 12 Question 6 (p. 72)
	Express the relationship between two fractions of the same whole, using <, >, or =.	Number Unit 2: Fractions 8: Comparing Fractions 1 9: Comparing Fractions 2 10: Comparing and Ordering Fractions		N/A
	Relate a fraction less than one to its position on the number line, limited to denominators of 12 or less.	Number Unit 2: Fractions 8: Comparing Fractions 1 10: Comparing and Ordering Fractions		N/A
	Compare fractions to benchmarks of 0, $\frac{1}{2}$, and 1.	Number Unit 2: Fractions 8: Comparing Fractions 1 10: Comparing and Ordering Fractions	Hockey Homework	Unit 12 Questions 5, 6 (p. 72)





Mathology Grade 3 Correlation (Algebra) – Alberta

Organizing Idea:

Equations express relationships between quantities.

Knowledge	Understanding	Skills & Procedures	Grade 3 Mathology	Mathology Little Books	Mathology Practice Workbook 3
An equation uses the equal sign to indicate equality between two expressions. The left and right sides of an equation are interchangeable.	Two expressions are equal if they represent the same number.	Write equations that represent equality between a number and an expression or between two different expressions of the same number.	Patterning Unit 2: Variables and Equations 9: Exploring Number Sentences for Larger Numbers 10: Solving Equations Concretely	A Week of Challenges	Unit 7 Questions 2, 3, 4c, 7 (pp. 38-40)
Equations can be modelled using a balance. A symbol may represent an	Equations can include unknown values.	Model equations that include an unknown value, including with a balance.	Patterning Unit 2: Variables and Equations 10: Solving Equations Concretely 11: Strategies for Solving Equations 12: Creating Equations 13: Consolidation	A Week of Challenges	Unit 7 Questions 1, 2 (pp. 37-38)
unknown value in an equation.		Determine an unknown value on the left or right side of an equation, limited to equations with one operation.	Patterning Unit 2: Variables and Equations 10: Solving Equations Concretely 11: Strategies for Solving Equations 12: Creating Equations 13: Consolidation	A Week of Challenges	Unit 7 Questions 1, 2, 3, 4, 5, 10 (pp. 37-39, 41)



Solve problems using equations, limited to equations with	Patterning Unit 2: Variables and Equations 12: Creating Equations	A Week of Challenges	Unit 7 Questions 6, 8 (pp. 39-40)
one operation.			





Mathology Grade 3 Correlation (Geometry) – Alberta

Organizing Idea:

Shapes are defined and related by geometric attributes.

Guiding Question: In what ways might geometric properties refine interpretation of shape?							
Learning Outcome: Students relate geometric properties to shape.							
Knowledge	Understanding	Skills & Procedures	Grade 3 Mathology	Mathology Little Books	Mathology Practice Workbook 3		
Geometric properties can describe relationships, including perpendicular, parallel, and equal. Parallel lines or planes are always	Geometric properties are relationships between geometric attributes. Geometric properties define a class of polygon.	Investigate the relationships between the sides of a polygon, including perpendicular, parallel, and equal, using referents for 90° or by measuring.	Geometry Unit 1: 2-D Shapes 3: Geometric Relationships		Unit 9 Questions 3, 6, 7 (pp. 51, 53)		
the same distance apart. Perpendicular lines or planes intersect at a 90° (right) angle.		Investigate the relationships between vertices of a polygon, including equal or right angles, using direct comparison or referents for 90°.	Geometry Unit 1: 2-D Shapes 3: Geometric Relationships		Unit 9 Questions 3, 6, 7, 9 (pp. 51, 53-54)		
Right angles can be identified using							



various referents, such as		Describe geometric	Geometry Unit 1: 2-D Shapes 1: Sorting Polygons	Gallery Tour WONDERful Buildings	Unit 9 Questions 1, 2, 3 (pp. 50-51)
 the corner of a piece of paper the angle between the 		properties of regular and irregular polygons.	2: What's the Sorting Rule?		(pp. 50-51)
hands on an analog clock at 3:00 • a capital letter L Polygons include		Sort polygons according to geometric properties and describe the sorting rule.	Geometry Unit 1: 2-D Shapes 1: Sorting Polygons 2: What's the Sorting Rule? 5: Consolidation	WONDERful Buildings	Unit 9 Questions 4, 5 (pp. 51-52)
 triangles quadrilaterals pentagons hexagons octagons 		Classify polygons as regular or irregular using geometric properties.	Geometry Unit 1: 2-D Shapes 1: Sorting Polygons 2: What's the Sorting Rule?		Unit 9 Questions 1, 2, 3 (p. 50-51)
Regular polygons have sides of equal length and interior angles of equal measure.					
Transformations include • translations • rotations • reflections	Geometric properties do not change when a polygon undergoes a transformation.	Examine geometric properties of polygons by translating, rotating, or	Geometry Unit 1: 2-D Shapes 4: Transformations	Gallery Tour	Unit 11 Question 3 (p. 63)
The distance between any two vertices of a shape is maintained in the image created by a transformation.		reflecting using hands-on materials or digital applications.			





Mathology Grade 3 Correlation (Measurement) – Alberta

Organizing Idea:

Attributes such as length, area, volume, and angle are quantified by measurement.

-	Guiding Question: In what ways can length be communicated?						
Learning Outcome: Students determine length using standard units.							
Knowledge	Understanding	Skills & Procedures	Grade 3 Mathology	Mathology Little Books	Mathology Practice Workbook 3		
The basic unit of length in the metric system is the metre. Metric units are named using	Length is measured in standard units according to the metric system and the imperial system.	Relate millimetres, centimetres, and metres.	Measurement Unit 1: Length and Perimeter 3: The Centimetre 4: Estimating and Measuring in Millimetres 10: Consolidation	Measurements About YOU!	Unit 6 Questions 2, 3 (p. 32)		
prefixes that indicate the relationship to the basic unit,	Length can be expressed in various units according to	Relate inches to feet and yards.	Measurement Unit 1: Length and Perimeter 7: Imperial Measures		N/A		
 including milli: one thousand millimetres in one metre centi: one 	context and desired precision.	Justify the choice of millimetres, centimetres, or metres to measure various lengths.	Measurement Unit 1: Length and Perimeter 9: How many Can you Make? 10: Consolidation		Unit 6 Question 1 (p. 31)		
hundred centimetres in one metre		Measure lengths of straight lines and curves, with millimetres, centimetres, or metres.	Measurement Unit 1: Length and Perimeter 2: The Metre 3: The Centimetre 4: Estimating and Measuring in Millimetres		Unit 6 Questions 4, 5, 6, 7, 9, 11, 12 (pp. 32-36)		



• deci: ten		5: Metres, Centimetres, or	
decimetres in		Millimetres?	
one metre		6: Measuring Length	
		10: Consolidation	
Metric units are			
abbreviated for			
convenience,	Recognize length	Measurement Unit 1: Length and	Unit 6 Questions 2, 3, 6
including	expressed in	Perimeter	(pp. 32-33)
• m: metre	metric or imperial	7: Imperial Measures	(pp. 32 33)
dm: decimetre	units.		
cm: centimetre		Measurement Unit 1. Length and	N/A
• mm: millimetre	Approximate a	Measurement Unit 1: Length and	N/A
	measurement in	Perimeter	
Standard measuring	inches, feet, or	7: Imperial Measures	
tools show iterations	yards using		
of a standard unit	centimetres or		
from an origin.	metres.		
Units of length in			
the imperial system			
include inch, foot,			
and yard, related			
in these ways:			
• 12 inches in			
one foot			
• 36 inches in			
one yard			
 3 feet in one 			
yard			
Approximate			
conversions			
between metric			
and imperial are			
useful in real-world			
situations, including			
• $2\frac{1}{2}$ centimetres			
are			



 approximately 1 inch 1 metre is approximately 3 feet 30 centimetres are approximately 1 foot 1 metre is approximately 1 yard 					
The perimeter of a polygon is the sum of the lengths of its sides.	Length remains the same when decomposed or rearranged.	Determine perimeter of polygons.	Measurement Unit 1: Length and Perimeter 8: Measuring Perimeter 9: How Many Can You Make? 10: Consolidation	The Bunny Challenge	Unit 6 Questions 7, 8, 9, 10, 12 (pp. 33-36) Unit 17 Question 2 (p. 103)
		Determine the length of an unknown side given the perimeter of a polygon.	Measurement Unit 1: Length and Perimeter 8: Measuring Perimeter	The Bunny Challenge	Unit 6 Questions 9, 10, 11 (pp. 34-35)
A benchmark is a known length to which another	Length can be estimated when less accuracy is required.	Identify referents for a centimetre and a metre.	Measurement Unit 1: Length and Perimeter 1: Estimating Length		Unit 6 Questions 4, 6 (32-33)
length can be compared. Length can be	ed. can be	Estimate length by comparing to a benchmark.	Measurement Unit 1: Length and Perimeter 1: Estimating Length		Unit 6 Questions 4, 6 (32-33)
estimated using a personal or familiar referent.		Estimate length by visualizing the iteration of a referent for a centimetre or metre.	Measurement Unit 1: Length and Perimeter 1: Estimating Length 10: Consolidation		Unit 6 Questions 4, 6 (32-33)



Knowledge	Understanding	Skills & Procedures	Grade 3 Mathology	Mathology Little Books	Mathology Practice Workbook 3
Angle defines the space in • corners • bends • turns or rotations • intersections • slopes The arms of an angle can be line segments or rays.	An angle is the union of two arms with a common vertex. An angle can be interpreted as the motion of a length rotated about a vertex.	Recognize various angles in surroundings. Recognize situations in which an angle can be perceived as motion.	Geometry Unit 2: Angles 6: Investigating Angles 8: Consolidation Geometry Unit 2: Angles 6: Investigating Angles		Unit 9 Question 10 (p. 55)
The end point of a ine segment or ray s called a vertex. Superimposing is the process of	Two angles can be compared directly or indirectly.	Compare two angles directly by	Geometry Unit 2: Angles 7: Comparing Angles		Unit 9 Question 8 (p. 54)
placing one angle over another to compare angles. A referent is a	manecuy.	superimposing. Compare two angles indirectly by superimposing a third angle.	Geometry Unit 2: Angles 7: Comparing Angles		Unit 9 Question 8 (p. 54)
personal or familiar representation of a		Estimate which of two angles is greater.	Geometry Unit 2: Angles 7: Comparing Angles		Unit 9 Question 10 (p. 55)
known angle.		Identify referents for 90°.	Geometry Unit 2: Angles 6: Investigating Angles 7: Comparing Angles		Unit 9 Questions 8, 10 (p. 54)
		Identify 90° angles in the environment using a referent.	Geometry Unit 2: Angles 6: Investigating Angles 7: Comparing Angles		Unit 9 Question 8 (p. 54)





Mathology Grade 3 Correlation (Patterns) – Alberta

Organizing Idea:

Awareness of patterns supports problem solving in various situations.

Guiding Question: How can diverse representations of patterns contribute to interpretation of change? Learning Outcome: Students analyze patterns in numerical sequences.						
Knowledge	Understanding	Skills & Procedures	Grade 3 Mathology	Mathology Little Books	Mathology Practice Workbook 3	
Ordinal numbers can indicate position in a sequence.	A sequence is a list of terms arranged in a certain order. Sequences may be	Recognize familiar numerical sequences, including the sequence of even or odd numbers.	Patterning Unit 1: Increasing and Decreasing Patterns 2: Numerical Sequences	Namir's Marvellous Masterpieces How Numbers Work The Best Surprise	Unit 1 Questions 4, 7, 9 (pp. 4, 6-7)	
Finite sequences, such as a countdown, have a definite end. Infinite sequences, such as the natural numbers, never end.	finite or infinite.	Describe position in a sequence using ordinal numbers.	Patterning Unit 1: Increasing andDecreasing Patterns1: Describing and ExtendingPatterns3: Representing Patterns4. Creating Patterns5: Identifying Errors and MissingTerms8: Consolidation		Unit 1 Questions 3, 4, 5, 6, 7, 8, 9 (pp. 3-7)	
		Differentiate between finite and infinite sequences.	Patterning Unit 1: Increasing and Decreasing Patterns 2: Numerical Sequences		N/A	
Numerical sequences can be constructed using addition, subtraction,	A sequence can progress according to a pattern.	Recognize skip- counting sequences in various representations,	Patterning Unit 1: Increasing and Decreasing Patterns 4: Creating Patterns 7: Exploring Multiplicative Patterns	Namir's Marvellous Masterpieces	Unit 2 Questions 4, 5, 6, 7, 8, 9, 10 (pp. 10-12)	



multiplication, or division.	including rows or columns of a multiplication table.	8: Consolidation		Unit 8 Questions 1, 2, 4, 5, 10 (pp. 42-44, 47)
	Determine any missing term in a skip-counting sequence using multiplication.	Patterning Unit 1: Increasing and Decreasing Patterns 5: Identifying Errors and Missing Terms 7: Exploring Multiplicative Patterns		Unit 2 Questions 4, 6 (p. 10)
	Describe the change from term to term in a numerical sequence using mathematical operations.	Patterning Unit 1: Increasing andDecreasing Patterns1: Describing and ExtendingPatterns3: Representing Patterns3: Representing Patterns4: Creating Patterns5: Identifying Errors and MissingTerms6: Solving Problems7: Exploring Multiplicative Patterns8: Consolidation	Namir's Marvellous Masterpieces The Best Surprise	Unit 1 Questions 3, 4, 5, 6, 7, 8, 9 (pp. 3-7)





Mathology Grade 3 Correlation (Time) – Alberta

Organizing Idea:

Duration is described and quantified by time.

Knowledge	Understanding	Skills & Procedures	Grade 3 Mathology	Mathology Little Books	Mathology Practice Workbook 3
Clocks relate seconds to minutes and hours according to a base-60 system.	Clocks are standard measuring tools used to communicate time.	Investigate relationships between seconds, minutes, and hours using an analog clock.	Measurement Unit 2: Time 11: Relationship Among Units of Time		Unit 13 Question 3, 5, 11 (pp. 77, 81)
The basic unit of time is the second. One second is $\frac{1}{60}$		Relate minutes past the hour to minutes until the next hour.	Measurement Unit 2: Time 12: Telling Time in One- and Five- Minute Intervals		Unit 13 Question 6, 9, 11 (pp. 78-80)
of a minute. One minute is $\frac{1}{60}$		Describe time of day as a.m. or p.m. relative to 12-hour cycles of day and	Measurement Unit 2: Time 12: Telling Time in One- and Five- Minute Intervals 13: Telling Time on a 24-Hour Clock		Unit 13 Question 8, 9, 11 (pp. 79-80)
of an hour. Analog and digital clocks represent time of day.		night. Tell time using analog and digital clocks.	Measurement Unit 2: Time 12: Telling Time in One- and Five- Minute Intervals 14: Consolidation		Unit 13 Question 6, 8, 9, 11 (pp. 78-80)



Time of day can be expressed as a duration relative to 12:00 in two 12-	Express time of day in relation to one 24-hour cycle.	Measurement Unit 2: Time 13: Telling Time on a 24-Hour Clock 14: Consolidation	Unit 13 Question 9, 10, 11 (pp. 79-80)
hour cycles. Time of day can be expressed as a duration relative to 0:00 in one 24-hour cycle in some contexts, including French-language contexts.			



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Mathology Grade 3 Correlation (Statistics) – Alberta

Organizing Idea:

The science of collecting, analyzing, visualizing, and interpreting data can inform understanding and decision making.

Guiding Question: How can representation support communication?							
Learning Outcome: Students interpret and explain representations of data.							
Knowledge	Understanding	Skills & Procedures	Grade 3 Mathology	Mathology Little Books	Mathology Practice Workbook 3		
Statistical questions are questions that can be answered by	Representation connects data to a statistical	Formulate statistical questions for investigation.	Data Unit 1: Data Management 3: Collecting Data	Welcome to The Nature Park	N/A		
collecting data.	question.	Predict the answer to a statistical question.	Data Unit 1: Data Management 3: Collecting Data		Unit 14 Question 3 (p. 85)		
First-hand data is collected by the person using the	Representation expresses data specific to a	Collect data using digital or non-digital tools and resources.	Data Unit 1: Data Management 3: Collecting Data	Welcome to The Nature Park	N/A		
data.	unique time and place.	Represent first-hand and second-hand	Data Unit 1: Data Management 4: Drawing Bar Graphs		Unit 14 Questions 4, 5 (p. 86)		
Second-hand data is data collected by others from sources such as websites	Representation tells a story about data.	data in a dot plot or bar graph with one- to-one correspondence.	5: Drawing Dot Plots 7: Consolidation				
and social media.		Describe the story that a representation tells about a collection of data in relation to a statistical question.	Data Unit 1: Data Management 1: Interpreting Bar Graphs 2: Interpreting Dot Plots	Welcome to The Nature Park	Unit 14 Question 1, 2, 4, 8a (pp. 84-86, 88)		



Examine First Nations, Métis, or Inuit representations of data.	Data Unit 1: Data Management 6: First Nations, Métis, or Inuit Representations of Data	N/A
Consider possible answers to a statistical question based on the data collected.	Data Unit 1: Data Management 3: Collecting Data	Unit 14 Question 3 (p. 85)



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Mathology Grade 3 Correlation (Financial Literacy) – Alberta

Organizing Idea:

Informed financial decision making contributes to the well-being of individuals, groups, and communities.

Knowledge	Understanding	Skills & Procedures	Grade 3 Mathology	Mathology Little Books	Mathology Practice Workbook 3
Good money habits allow individuals to appreciate the value of money and the importance of managing it. Responsible spending can be supported through strategies, such as • buying needed items first	Individuals can develop good habits early in life to make responsible money decisions now and in the future. Saving is essential for personal short-term and long-term goals.	Discuss the importance of responsible spending and saving.	Number Unit 6: Financial Literacy 33: Good Money Habits 35: Consolidation		Unit 8 Questions 9, 10 (pp 46-47)



 buying items 	Donating money	Identify possible	Number Unit 6: Financial Literacy	N/A
that are	can have a	short-term and	34: Short-Term and Long-Term Savings	,
affordable	significant	long-term saving	Goals	
 taking time 	impact on the	goals.	35: Consolidation	
when making	well-being of	8		
purchases	others.			
 not purchasing 	00000			
more than is				
needed				
neeueu				
Saving means not				
spending in order to				
keep money aside				
for unexpected				
expenses and to				
pay for purchases,				
activities, and future				
plans or goals.				
Responsible saving				
can be supported				
through strategies,				
such as				
 considering 				
needs and wants				
 setting financial 				
goals				
 establishing a 				
savings account				
 putting earned 				
money aside				
on a regular				
basis				
Responsible money				
management can				
allow individuals to				
help others in need				
through donation.				
through donation.				

