

## Mathology Grade 3 Correlation (Number) - Alberta

\*Materials referenced from other grades can be found in mathology.ca\*

#### **Organizing Idea:**

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

**Guiding Question:** How can place value support organization of number? **Learning Outcome:** Students interpret place value within 100 000.

zearning outcome:				
			Grade 3 mathology.ca	
			(Suggested ways to align with 2022	
Knowledge	Understanding	Skills & Procedures	curriculum)	Mathology Little Books
For numbers in	Place value is the	Identify the place	Link to other grades:	How Numbers Work
base-10, each place	basis for the base-	value of each digit in	Grade 4 Number Unit 1: Number Relationships	
has 10 times the	10 system.	a natural number.	and Place Value	
value of the place to its right.	Place value		1: Representing Numbers to 10 000	
its right.	determines the		Grade 5 Number Unit 1: Number Relationships	
The digits 0 to 9	value of a digit		and Place Value	
indicate the number	based on its place in		1: Representing Larger Numbers	
of groups in each	a number, relative		(Part A addresses numbers to 100 000. Omit Part B as	
place in a number.	to the ones place.		numbers go beyond 100 000.)	
The value of each	Diago valva is vasad	Relate the values of	Link to other grades:	Finding Buster
place in a number is	Place value is used to read, write, and	adjacent places.	Grade 4 Number Unit 1: Number Relationships	How Numbers Work
the product of the	compare numbers.		and Place Value	
digit and its place	,		1: Representing Numbers to 10 000	
value.			Grade 5 Number Unit 1: Number Relationships	
Numbers can be			and Place Value	
composed in			1: Representing Larger Numbers	



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various ways using		(Part A addresses numbers to 100 000. Omit Part B as	
place value.		numbers go beyond 100 000.)	
Number of the	Determine the value	Link to other grades:	How Numbers Work
Numbers can be rounded in contexts	of each digit in a	Grade 4 Number Unit 1: Number Relationships	
where an exact	natural number.	and Place Value	
count is not needed.		1: Representing Numbers to 10 000	
count is not needed.		Grade 5 Number Unit 1: Number Relationships	
The less than sign,			
<, and the greater		and Place Value	
than sign, >, are		1: Representing Larger Numbers	
used to show the		(Part A addresses numbers to 100 000. Omit Part B as	
relationship		numbers go beyond 100 000.)	
between two	Express natural	Link to other grades:	
unequal numbers.	numbers using words	Grade 4 Number Unit 1: Number Relationships	
A zero in the	and numerals.	and Place Value	
leftmost place of a		1: Representing Numbers to 10 000	
natural number		Grade 5 Number Unit 1: Number Relationships	
does not change the		and Place Value	
value of the		1: Representing Larger Numbers	
number.		(Part A addresses numbers to 100 000. Omit Part B as	
The dollar sign, \$, is	-	numbers go beyond 100 000.)	I. B.
placed to the left of	Express various	Link to other grades:	Finding Buster
the dollar value in	compositions of a natural number using place value.	Grade 4 Number Unit 1: Number Relationships	Fantastic Journeys
English and to the		and Place Value	
right of the dollar value in French.	place value.	2: Composing and Decomposing Larger Numbers	
value in French.		(to 10 000)	
The cent sign, ¢, is placed to the right of the cent value in		(Currently to 10 000; include numbers to 100 000.	
		Edit Practice line master to include numbers to 100	
		000.)	
English and in	Round natural	New Lesson to Come: Rounding Numbers	
French.	numbers to various		
	places.	Link to other grades.	Fantastic laurnous
	Compare and order natural numbers.	Link to other grades:	Fantastic Journeys Finding Buster
	naturar numbers.	Grade 4 Number Unit 1: Number Relationships	Math Makes Me Laugh
		and Place Value	Wath Wakes We Laugh



Express the relationship between two numbers using <, >, or =.	4: Comparing and Ordering Numbers (to 10 000) (Currently to 10 000; include numbers to 100 000. Edit Practice line master to include numbers to 100 000.) Link to other grades: Grade 4 Number Unit 1: Number Relationships and Place Value 4: Comparing and Ordering Numbers (to 10 000)	The Street Party
	(Currently to 10 000; include numbers to 100 000. Edit Practice line master to include numbers to 100 000.)	
Count and represent	Number Unit 7: Financial Literacy	
the value of a collection of nickels, dimes, and quarters as cents.	34: Estimating and Counting Money	
Count and represent the value of a collection of loonies, toonies, and bills as dollars.	Number Unit 7: Financial Literacy 34: Estimating and Counting Money (Currently addresses English symbolic representation of monetary values. Include French symbolic representation where the dollar sign is placed to the right of the dollar value.)	
Recognize French and English symbolic representations of monetary values.	Number Unit 7: Financial Literacy 34: Estimating and Counting Money (Currently addresses English symbolic representation of monetary values. Include French symbolic representation where the dollar sign is placed to the right of the dollar value.)	



**Guiding Question:** How can processes be established for addition and subtraction? **Learning Outcome:** Students apply strategies for addition and subtraction within 1000.

		Skills &	Grade 3 mathology.ca	
Knowledge	Understanding	Procedures	(Suggested ways to align with 2022 curriculum)	Mathology Little Books
Recall of addition	Addition and	Relate strategies	Number Unit 5: Addition and Subtraction	Math Makes Me Laugh
and subtraction	subtraction	for the addition	19: Modeling Addition and Subtraction	Planting Seeds
number facts	strategies can be	and subtraction of	22: Using Mental Math to Add and Subtract	The Street Party
facilitates addition	chosen based on the	two-digit numbers		
and subtraction	nature of the	to strategies for		
strategies.	numbers.	the addition and		
		subtraction of		
Standard	Standard algorithms	three-digit		
algorithms for	for addition and	numbers.		
addition and	subtraction may be	Model regrouping	Number Unit 5: Addition and Subtraction	
subtraction are	used for any natural	by place value for	19: Modeling Addition and Subtraction	
conventional	numbers.	addition and		
procedures based		subtraction.		
on place value.		Explain the	Number Unit 5: Addition and Subtraction	Math Makes Me Laugh
		standard	19: Modeling Addition and Subtraction	The Street Party
Estimation can be		algorithms for		
used to support		addition and		
addition and		subtraction of		
subtraction in		natural numbers.		
everyday situations,		Add and subtract	Number Unit 5: Addition and Subtraction	Math Makes Me Laugh
including		natural numbers	19: Modeling Addition and Subtraction	
when an exact		using standard		
sum or		algorithms.		
difference is		Estimate sums and	Number Unit 5: Addition and Subtraction	Calla's Jingle Dress
not needed		differences.	20: Estimating Sum and Differences	
to check if an			22: Using Mental Math to Add and Subtract	
answer is		Solve problems	Number Unit 5: Addition and Subtraction	Calla's Jingle Dress
reasonable		using addition and	24: Creating and Solving Problems	
Teasoriable		subtraction.	25: Creating and Solving Problems with Larger	
			Numbers	
			26: Consolidation	



**Guiding Question:** How can multiplication and division provide new perspectives of number? **Learning Outcome:** Students analyze and apply strategies for multiplication and division within 100.

		Skills &	Grade 3 mathology.ca	
Knowledge	Understanding	Procedures	(Suggested ways to align with 2022 curriculum)	Mathology Little Books
Multiplication and	Quantities can be	Compose a	Number Unit 6: Multiplication and Division	Planting Seeds
division are inverse	composed and	product using	27: Exploring Multiplication	Sports Camp
mathematical	decomposed through	equal groups of		Calla's Jingle Dress
operations.	multiplication and	objects.		
Multiplication is	division.			Link to other grades: (Grade 2)
repeated addition.				Array's Bakery
repeated addition.				Marbles, Alleys, Mibs, and Guli!
Multiplication can		Relate	Number Unit 6: Multiplication and Division	Calla's Jingle Dress
be interpreted in		multiplication to	27: Exploring Multiplication	Planting Seeds
various ways		repeated addition.		Sports Camp
according to			Link to other grades:	
context, such as			Grade 2 Number Cluster 8: Early Multiplicative	
<ul> <li>equal groups</li> </ul>			Thinking	
<ul><li>an array</li></ul>			40: Exploring Repeated Addition	
an area			41: Repeated Addition and Multiplication	
			42: Consolidation	
Division can be		Relate	Number Unit 6: Multiplication and Division	Planting Seeds
interpreted in various		multiplication to	27: Exploring Multiplication	
ways according to		skip counting.		Link to other grades: (Grade 2)
context, such as			Link to other grades:	Calla's Jingle Dress
<ul> <li>equal sharing</li> </ul>			Grade 2 Number Cluster 8: Early Multiplicative	Array's Bakery
<ul> <li>equal grouping</li> </ul>			Thinking	Marbles, Alleys, Mibs, and Guli!
<ul><li>repeated</li></ul>			40: Exploring Repeated Addition	
subtraction			41: Repeated Addition and Multiplication 42: Consolidation	
The order in which		Investigate		
two quantities are		Investigate multiplication by 0.	Link to other grades:  Grade 4 Number Unit 5: Fluency with Multiplication	
multiplied does not		multiplication by 0.	and Division Facts	
affect the product			24: Strategies for Multiplication	
(commutative			(Explore what happens when a number is multiplied	
property).			by 1 and by 0.)	
		Model a quotient	Number Unit 6: Multiplication and Division	Sports Camp
The order in which		by partitioning a	28: Exploring Division	Sports camp



two numbers are divided affects the quotient.  Multiplication or division by 1 results		quantity into equal groups or groups of a certain size, with or without remainders.		Link to other grades: (Grade 2) Marbles, Alleys, Mibs, and Guli!
in the same number (identity property).		Visualize and model products and quotients as arrays.	Number Unit 6: Multiplication and Division 28: Exploring Division New Lesson to Come: Multiplying and Dividing Larger Numbers Link to other grades: Grade 4 Number Unit 5: Fluency with Multiplication and Division Facts 26: Relating Multiplication and Division	Link to other grades: (Grade 2) Array's Bakery
		Recognize interpretations of multiplication and division in various contexts.	Link to other grades: Grade 4 Number Unit 5: Fluency with Multiplication and Division Facts 25: Solving Multiplication Problems (Include division word problems as well; discuss situations when multiplication and division would be used in real life.)	
Numbers can be multiplied or divided in parts (distributive property).  Multiplication strategies include  • repeated addition • multiplying in parts	Sharing and grouping situations can be interpreted as multiplication or division.  Multiplication and division strategies can be supported by addition and subtraction.	Investigate multiplication and division strategies.	Link to other grades: Grade 4 Number Unit 5: Fluency with Multiplication and Division Facts 24: Strategies for Multiplication 26: Relating Multiplication and Division 27: Strategies for Division Grade 2 Number Cluster 8: Early Multiplicative Thinking 41: Repeated Addition and Multiplication New Lesson to Come: Repeated Subtraction and Division	Sports Camp
<ul><li>compensation</li><li>Division strategies include</li></ul>		Multiply and divide within 100.	Number Unit 6: Multiplication and Division  New Lesson to Come: Multiplying and Dividing Larger  Numbers  32: Building Fluency: The Games Room	



<ul><li>repeated subtraction</li><li>partitioning the dividend</li></ul>			Link to other grades: Grade 4 Number Unit 5: Fluency with Multiplication and Division Facts 24: Strategies for Multiplication 27: Strategies for Division	
Products can be expressed symbolically using the multiplication		Verify a product or quotient using inverse operations.	Link to other grades: Grade 4 Number Unit 5: Fluency with Multiplication and Division Facts 26: Relating Multiplication and Division (Encourage the use of inverse operation to check solutions.)	
sign, x, factors, and the equal sign.  Quotients can be expressed		Determine a missing quantity in a product or quotient in a variety of ways.	Link to other grades:  Grade 4 Number Unit 5: Fluency with Multiplication and Division Facts  26: Relating Multiplication and Division	
symbolically using the division sign, ÷, dividend, divisor, and the equal sign.		Express multiplication and division symbolically.	Number Unit 6: Multiplication and Division 32: Building Fluency: The Games Room	Sports Camp
A missing quantity in a product or quotient can be represented in		Explain the meaning of the remainder in various situations.	Link to other grades: Grade 4 Number Unit 6: Multiplying and Dividing Larger Numbers 34: Dividing with Remainders (Remove division of a 3-digit number by a 1-digit number.)	
different ways, including  a × b =   a × = c  x b = c  e ÷ f =   e ÷ = g  A remainder is the quantity left over after division.		Solve problems using multiplication and division in sharing or grouping situations.	Link to other grades: Grade 4 Number Unit 5: Fluency with Multiplication and Division Facts 25: Solving Multiplication Problems (Include division word problems as well.) 26: Relating Multiplication and Division	Sports Camp
A multiplication table shows both multiplication and	Multiplication number facts have related division facts.	Examine patterns in multiplication and division,	Number Unit 6: Multiplication and Division 32: Building Fluency: The Games Room	



division facts.	including patterns in multiplication		
Fact families are groups of related multiplication and division number facts.	tables and skip counting.  Recognize families of related multiplication and division number facts.	Number Unit 6: Multiplication and Division 29: Relating Multiplication and Division (Stress fact families when teaching this lesson.) 32: Building Fluency: The Games Room 33: Consolidation	
	Recall multiplication number facts, with factors to 10, and related division facts.	Number Unit 6: Multiplication and Division 32: Building Fluency: The Games Room  Link to other grades: Grade 4 Number Unit 5: Fluency with Multiplication and Division Facts 24: Strategies for Multiplication	



**Guiding Question:** How can fractions contribute to a sense of number? **Learning Outcome:** Students interpret fractions in relation to one whole.

		Skills &	Grade 3 mathology.ca	
Knowledge	Understanding	Procedures	(Suggested ways to align with 2022 curriculum)	Mathology Little Books
<ul> <li>Knowledge</li> <li>The same fraction can represent</li> <li>equal parts of one whole length, shape or object</li> <li>equal groups of one whole quantity</li> <li>equal parts of</li> </ul>	Fractions are numbers between natural numbers.  Fractions can represent part-to-whole relationships.  A unit fraction describes the size of the equal parts of a	Procedures  Model fractions of a whole quantity, length, shape or object, in various ways, limited to denominators of 12 or less.  Visualize fractions as compositions of a unit fraction.	Number Unit 4: Fractions  14: Exploring Equal Parts 15: Comparing Fractions 1  Link to other grades: Grade 4 Unit 3: Fractions  15: Different Representations of Fractions  Number Unit 4: Fractions  14: Exploring Equal Parts 15: Comparing Fractions 1 16: Comparing Fractions 2	Mathology Little Books
each equal group in one whole quantity  The name of a fraction describes its composition as a number of unit	fraction.  The size of the parts and the total number of equal parts in the whole are inversely related.	Identify the numerator and denominator of a fraction in various representations.  Name a given fraction.	Number Unit 4: Fractions 14: Exploring Equal Parts  Number Unit 4: Fractions 14: Exploring Equal Parts	
fractions.  Fraction notation, $(\frac{a}{b})$ , relates the numerator, $a$ , as a number of equal parts, to the denominator, $b$ , as the total number of equal parts in the whole.		Express fractions, including one whole, symbolically, limited to denominators of 12 or less.  Relate various representations of the same fraction, limited to denominators of 12 or less.	Number Unit 4: Fractions 14: Exploring Equal Parts 15: Comparing Fractions 1 16: Comparing Fractions 2  Link to other grades: Grade 4 Unit 3: Fractions 15: Different Representations of Fractions	Hockey Homework



Equal numerators or equal denominators can facilitate the comparison of fractions.  A fraction with a numerator that is equal to its	Compare the same fraction of different-sized wholes.	Number Unit 4: Fractions 15: Comparing Fractions 1 16: Comparing Fractions 2  Link to other grades: Grade 4 Unit 3: Fractions 15: Different Representations of Fractions (Include the exploration of the same fraction of different-sized wholes.)	Hockey Homework
denominator is one whole.  Each fraction is associated with a point on the	Compare different fractions of the same whole that have the same denominator.	Number Unit 4: Fractions 15: Comparing Fractions 1 16: Comparing Fractions 2	
number line.	Compare different fractions of the same whole that have the same numerator and different denominators.	Number Unit 4: Fractions 15: Comparing Fractions 1 16: Comparing Fractions 2	
	Express the relationship between two fractions of the same whole, using <, >, or =.	Number Unit 4: Fractions 15: Comparing Fractions 1 16: Comparing Fractions 2 (Incorporate use of <, >, and = when comparing pairs of fractions.)	
	Relate a fraction less than one to its position on the number line, limited to denominators of	Number Unit 4: Fractions 15: Comparing Fractions 1  Link to other grades: Grade 4 Unit 3: Fractions	
	12 or less.	15: Different Representations of Fractions	



Compare fractions to benchmark $\frac{1}{2}$ , and 1.	13. companing ractions 1	Hockey Homework
	Link to other grades: <b>Grade 4 Unit 3: Fractions</b> 15: Different Representations of Fractions	







# Mathology Grade 3 Correlation (Algebra) – Alberta

#### **Organizing Idea:**

Equations express relationships between quantities.

**Guiding Question:** How can equality facilitate agility with number?

**Learning Outcome:** Students illustrate equality with equations.

Learning Outcome	earning Outcome: Students illustrate equality with equations.				
Knowledge	Understanding	Skills & Procedures	Grade 3 mathology.ca (Suggested ways to align with 2022 curriculum)	Mathology Little Books	
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 8: Solving Equations Concretely  Link to other grades: Grade 2 Patterning Cluster 3: Equality and Inequality 19: Exploring Number Sentences for Larger Numbers	A Week of Challenges	
Equations can be modelled using a balance.  A symbol may	Equations can include unknown values.	Model equations that include an unknown value, including with a balance.	Patterning Unit 2: Variables and Equations 8: Solving Equations Concretely 9: Strategies for Solving Equations 11: Creating Equations 12: Consolidation	A Week of Challenges	
represent an 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 8: Solving Equations Concretely 9: Strategies for Solving Equations 11: Creating Equations 12: Consolidation	A Week of Challenges	



Solve problems	Patterning Unit 2: Variables and Equations	A Week of Challenges
using equations,	11: Creating Equations	
limited to		
equations with		
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 geom	etric properties to	shape.	
Knowledge	Understanding	Skills & Procedures	Grade 3 mathology.ca (Suggested ways to align with 2022 curriculum)	Mathology Little Books
Geometric	Geometric properties	Investigate the	New Lesson to Come: Geometric Relationships	
properties can	are relationships	relationships		
describe	between geometric	between the sides		
relationships,	attributes.	of a polygon,		
including		including		
perpendicular,	Geometric properties	perpendicular,		
parallel, and equal.	define a class of	parallel, and		
	polygon.	equal, using		
Parallel lines or		referents for 90°		
planes are always		or by measuring.		
the same distance		Investigate the	New Lesson to Come: Geometric Relationships	
apart.		relationships		
		between vertices		
Perpendicular lines		of a polygon,		
or planes intersect		including equal or		
at a 90° (right)		right angles, using		
angle.		direct comparison		
		or referents for		
		90°.		
Right angles can be				
identified using		Describe	Geometry Unit 1: 2-D Shapes	Gallery Tour
		geometric	1: Sorting Polygons	WONDERful Buildings



	I			
various referents,		properties of	2: What's the Sorting Rule?	
such as		regular and		
<ul> <li>the corner of a</li> </ul>		irregular		
piece of paper		polygons.		
<ul><li>the angle</li></ul>		Sort polygons	Geometry Unit 1: 2-D Shapes	WONDERful Buildings
between the		according to	1: Sorting Polygons	
hands on an		geometric	2: What's the Sorting Rule?	
analog clock at		properties and	4: Exploring Quadrilaterals	
3:00		describe the	5: Consolidation	
a capital letter L		sorting rule.		
·		Classify polygons	Geometry Unit 1: 2-D Shapes	
Polygons include		as regular or	1: Sorting Polygons	
<ul><li>triangles</li></ul>		irregular using	2: What's the Sorting Rule?	
quadrilaterals		geometric		
<ul><li>pentagons</li></ul>		properties.		
hexagons				
_				
<ul><li>octagons</li></ul>				
Regular polygons				
have sides of equal				
length and interior				
angles of equal				
measure.	Cooperatuia puo pontios	Fuguring)	Nov. Logger to Comp. Transferred the	CallamyTavy
Transformations	Geometric properties	Examine	New Lesson to Come: Transformations	Gallery Tour
include	do not change when	geometric		
<ul> <li>translations</li> </ul>	a polygon undergoes	properties of		
<ul><li>rotations</li></ul>	a transformation.	polygons by		
<ul> <li>reflections</li> </ul>		translating,		
		rotating, or		
The distance		reflecting using		
between any two		hands-on		
vertices of a shape		materials or		
is maintained in the		digital		
image created by a		applications.		
transformation.				





# 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:	Learning Outcome: Students determine length using standard units.			
		Skills &	Grade 3 mathology.ca	
Knowledge	Understanding	Procedures	(Suggested ways to align with 2022 curriculum)	Mathology Little Books
The basic unit of	Length is measured	Relate	Link to other grades:	Measurements About YOU!
length in the metric	in standard units	millimetres,	Grade 2 Measurement Cluster 2: Using Standard	(Addresses length, mass,
system is the metre.	according to the	centimetres, and	Units	capacity, and area.)
	metric system and	metres.	10: The Centimetre	
Metric units are	the imperial system.		(Include the relationship between metres and	
named using			centimetres.)	
prefixes that indicate	Length can be		Grade 4 Measurement Unit 1: Length, Perimeter,	
the relationship to	expressed in various		and Area	
the basic unit,	units according to		1: Estimating and Measuring in Millimetres	
including	context and desired	Relate inches to	New Lesson to Come: Imperial Units	
<ul><li>milli: one</li></ul>	precision.	feet and yards.		
thousand		Justify the choice	Link to other grades:	
millimetres in		of millimetres,	Grade 2 Measurement Cluster 2: Using Standard	
one metre		centimetres or	Units	
<ul><li>centi: one</li></ul>		metres to	11: Metres or Centimetres? (Include objects that	
hundred		measure various	would be measured in millimetres and have students	
centimetres in		lengths.	choose among metres, centimetres, and millimetres.)	
one metre				
deci: ten		Measure lengths	Measurement Unit 1: Length and Perimeter	
decimetres in		of straight lines	3: Measuring Length (Currently addresses measuring	
one metre		and curves, with	length around 2-D shapes and 3-D objects. Add	
		millimetres,		



	1		
Metric units are	centimetres, or	straight lines and curves. Edit Practice line master to	
abbreviated for	metres.	include a heart, oval, blob.)	
convenience,		7: Consolidation	
including			
m: metre		Link to other grades:	
dm: decimetre		Grade 2 Measurement Cluster 2: Using Standard	
cm: centimetre		Units	
mm: millimetre		9: The Metre	
		10: The Centimetre	
Standard measuring		Grade 4 Measurement Unit 1: Length, Perimeter,	
tools show iterations		and Area	
of a standard unit		1: Estimating and Measuring in Millimetres	
from an origin.	Recognize length	New Lesson to Come: Imperial Units	
	expressed in	The second of th	
Units of length in	metric or imperial		
the imperial system	units.		
include inch, foot,	Approximate a	New Lesson to Come: Imperial Units	
and yard, related	measurement in	New Zesson to come. Imperial omes	
in these ways:	inches, feet, or		
• 12 inches in	yards using		
one foot	centimetres or		
36 inches in	metres.		
one yard	metres.		
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			



<ul> <li>1 metre is approximately 3 feet</li> <li>30 centimetres are approximately 1 foot</li> <li>1 metre is approximately 1 yard</li> </ul>				
The perimeter of a	Length remains the	Determine	Measurement Unit 1: Length and Perimeter	The Bunny Challenge
polygon is the sum	same when	perimeter of	5: Measuring Perimeter	(Addresses perimeter and area.)
of the lengths of its	decomposed or	polygons.	6: How Many Can We Make?	primaresses permittee and areas,
sides.	rearranged.	Determine the	Measurement Unit 1: Length and Perimeter	The Bunny Challenge
		length of an	5: Measuring Perimeter	(Addresses perimeter and area.)
		unknown side	(Add determining the length of an unknown side given	( 11 1111 )
		given the	perimeter of a polygon: for example, perimeter of a	
		perimeter of a	triangle is 23 cm and 2 side lengths are	
		polygon.	8 cm and 6 cm.)	
A benchmark is a	Length can be	Identify referents	Measurement Unit 1: Length and Perimeter	
known length to	estimated when less	for a centimetre	1: Estimating Length	
which another	accuracy is required.	and a metre.		
length can be		Estimate length by	Measurement Unit 1: Length and Perimeter	
compared.		comparing to a	1: Estimating Length	
		benchmark.		
Length can be		Estimate length by	Measurement Unit 1: Length and Perimeter	
estimated using a personal or familiar		visualizing the	1: Estimating Length	
referent.		iteration of a		
referent.		referent for a		
		centimetre or		
		metre.		



**Guiding Question:** How can angles broaden an understanding of space?

**Learning Outcome:** Students interpret angles.

		Skills &	Grade 3 mathology.ca	
Knowledge	Understanding	Procedures	(Suggested ways to align with 2022 curriculum)	Mathology Little Books
Angle defines the	An angle is the union	Recognize various	New Lesson to Come: Investigating Angles	
space in	of two arms with a	angles in		
<ul><li>corners</li></ul>	common vertex.	surroundings.		
<ul><li>bends</li></ul>		Recognize	New Lesson to Come: Investigating Angles	
<ul><li>turns or</li></ul>	An angle can be	situations in which		
rotations	interpreted as the	an angle can be		
<ul><li>intersections</li></ul>	motion of a length	perceived as		
<ul><li>slopes</li></ul>	rotated about a vertex.	motion.		
The arms of an				
angle can be line				
segments or rays.				
The end point of a				
line segment or ray				
is called a vertex.				
Superimposing is	Two angles can be	Compare two	New Lesson to Come: Comparing Angles	
the process of	compared directly or	angles directly by		
placing one angle	indirectly.	superimposing.		
over another to		Compare two	New Lesson to Come: Comparing Angles	
compare angles.		angles indirectly		
		by superimposing		
A referent is a		a third angle.		
personal or familiar		Estimate which of	New Lesson to Come: Comparing Angles	
representation of a		two angles is greater.		
known angle.		Identify referents	New Lesson to Come: Investigating Angles	
		for 90°.	New Lesson to Come: Comparing Angles	
		Identify 90° angles	New Lesson to Come: Investigating Angles	
		in the environment	New Lesson to Come: Comparing Angles	
		using a referent.		





## 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.

Learning Outcome.	i Students analyze patt			
		Skills &	Grade 3 mathology.ca	
Knowledge	Understanding	Procedures	(Suggested ways to align with 2022 curriculum)	Mathology Little Books
Ordinal numbers	A sequence is a list of	Recognize familiar	New Lesson to Come: Finite and Infinite Number	Namir's Marvellous
can indicate	terms arranged in a	numerical sequences,	Sequences	Masterpieces
position in a	certain order.	including the		How Numbers Work
sequence.		sequence of even		The Best Surprise
	Sequences may be	or odd numbers.		
Finite sequences,	finite or infinite.	Describe position	Patterning Unit 1: Increasing and Decreasing	
such as a		in a sequence	Patterns	
countdown, have a		using ordinal	1: Describing and Extending Patterns	
definite end.		numbers.	(Describe position of terms using ordinal numbers.)	
Infinite sequences,		Differentiate	New Lesson to Come: Finite and Infinite Number	
such as the natural		between finite and	Sequences	
numbers, never end.		infinite sequences.		
Numerical	A sequence can	Recognize skip-	Patterning Unit 1: Increasing and Decreasing	Namir's Marvellous
sequences can be	progress according to	counting sequences	Patterns	Masterpieces
constructed using	a pattern.	in various	3: Creating Patterns	
addition, subtraction,		representations,	6: Exploring Multiplicative Patterns	
multiplication, or		including rows or		
division.		columns of a		
		multiplication		
		table.		
		Determine any	Patterning Unit 1: Increasing and Decreasing	
		missing term in a	Patterns	



skip-counting	4: Identifying Errors and Missing Terms	
sequence using	6: Exploring Multiplicative Patterns	
multiplication.		
Describe the	Patterning Unit 1: Increasing and Decreasing	Namir's Marvellous
change from term	Patterns	Masterpieces
to term in a	1: Describing and Extending Patterns	The Best Surprise
numerical	2: Representing Patterns	
sequence using	3: Creating Patterns	
mathematical	5: Solving Problems	
operations.		







# Mathology Grade 3 Correlation (Time) – Alberta

## **Organizing Idea:**

Duration is described and quantified by time.

<b>Guiding Question:</b>	Guiding Question: How can duration be communicated?			
Learning Outcome	: Students tell time	using clocks.		
		Skills &	Grade 3 mathology.ca	
Knowledge	Understanding	Procedures	(Suggested ways to align with 2022 curriculum)	Mathology Little Books
Clocks relate	Clocks are	Investigate	Measurement Unit 3: Time and Temperature	
seconds to minutes	standard	relationships between	9: Relationship Among Units of Time	
and hours	measuring tools	seconds, minutes, and	(Remove days, weeks, months, and years. Only	
according to a	used to	hours using an analog	seconds, minutes, and hours required.)	
base-60 system.	communicate	clock.		
	time.	Relate minutes past	Link to other grades:	
The basic unit of		the hour to minutes	Grade 4 Measurement Unit 3: Time	
time is the second.		until the next hour.	13: Telling Time in One- and Five-Minute Intervals	
			(Add a.m. and p.m. when describing time: before or	
One second is $\frac{1}{60}$			after noon.)	
of a minute.		Describe time of day	Link to other grades:	
		as a.m. or p.m. relative	Grade 4 Measurement Unit 3: Time	
One minute is $\frac{1}{60}$		to 12-hour cycles of	14: Telling Time on a 24-Hour Clock	
00		day and night.		
of an hour.		Tell time using analog	Link to other grades:	
Analas and distal		and digital clocks.	Grade 4 Measurement Unit 3: Time	
Analog and digital			13: Telling Time in One- and Five-Minute Intervals	
clocks represent		Express time of day in	Link to other grades:	
time of day.		relation to one 24-	Grade 4 Measurement Unit 3: Time	
Time of day can be		hour cycle.	14: Telling Time on a 24-Hour Clock	
Time of day can be				
expressed as a				



duration relative to 12:00 in two 12- 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.		







## 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. Grade 3 mathology.ca (Suggested ways to align with 2022 curriculum) **Mathology Little Books Skills & Procedures** Knowledge Understanding Statistical questions Representation Formulate statistical Data Unit 1: Data Management Welcome to The Nature Park connects data to auestions for 3A: Collecting Data are questions that can be answered by a statistical investigation. collecting data. question. Predict the answer to a Data Unit 1: Data Management 3A: Collecting Data (Have students predict the answer statistical question. to a question before collecting data.) First-hand data is Representation Collect data using Data Unit 1: Data Management Welcome to The Nature Park digital or non-digital 3A: Collecting Data (Currently uses non-digital collected by the expresses data person using the specific to a tools and resources. resources; include use of digital resources as well unique time and (e.g., websites, social media).) data. place. Second-hand data is Represent first-hand Data Unit 1: Data Management data collected by Representation and second-hand data 4A: Drawing Bar Graphs others from sources tells a story 5A: Drawing Line Plots (May want to refer to line in a dot plot or bar such as websites about data. graph with one-to-one plots as dot plots.) and social media. correspondence. 6A: Consolidation Describe the story that Data Unit 1: Data Management Welcome to The Nature Park a representation tells 1A: Interpreting Bar Graphs about a collection of 2A: Interpreting Line Plots (May want to refer to line plots as dot plots.)



data in relation to a statistical question.	
Examine First Nations,	New Lesson to Come: First Nations, Métis, or Inuit
Métis, or Inuit	Representations of Data
representations of	
data.	
Consider possible	Data Unit 1: Data Management
answers to a statistical	3A: Collecting Data
question based on the	(Have students use collected data to consider possible
data collected.	answers to a statistical question.)







## Mathology Grade 3 Correlation (Financial Literacy) - Alberta

#### **Organizing Idea:**

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

**Guiding Question:** In what ways can money management be supported? Learning Outcome: Students describe strategies that support responsible money management. Grade 3 mathology.ca **Mathology Little Books** Knowledge (Suggested ways to align with 2022 curriculum) **Understanding Skills & Procedures** New Lesson to Come: Good Money Habits Good money habits Individuals can Discuss the importance allow individuals develop good of responsible spending and saving. habits early in to appreciate the value of money and life to make the importance of responsible managing it. money decisions now and in the Responsible spending future. can be supported through strategies, Saving is essential such as for personal short-term and buying needed items first long-term goals.



_	T			
<ul> <li>buying items</li> </ul>	Donating money	Identify possible short-	New Lesson to Come: Short-term and Long-term	
that are	can have a	term and long-term	Saving Goals	
affordable	significant	saving goals.		
<ul> <li>taking time</li> </ul>	impact on the			
when making	well-being of			
purchases	others.			
<ul> <li>not purchasing</li> </ul>				
more than is				
needed				
Treeded.				
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				
<ul> <li>considering</li> </ul>				
needs and wants				
<ul> <li>setting financial</li> </ul>				
goals				
<ul> <li>establishing a</li> </ul>				
savings account				
<ul> <li>putting earned</li> </ul>				
money aside				
on a regular				
basis				
Responsible money				
management can				
allow individuals to				
help others in need				
through donation.				

