Mathletics

New Brunswick Outcomes

Alignment with Mathletics

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Mathletics and the New Brunswick Outcomes

The education team at Mathletics is committed to providing a resource that is powerful, targeted, and, most importantly, relevant to all students.

Mathletics includes well over 1200 individual adaptive practice activities and eBooks available for all grades. Our team of educational publishers has created a course that specifically follows the New Brunswick outcomes. You can be assured that students have access to relevant and targeted content.

Strands, substrands, and learning outcomes are supported with activities, each with pre and post assessment. What's more, Mathletics contains an extensive library of eBooks—for use on screen or as a printable resource—that are also mapped to the requirements of the New Brunswick outcomes.

This document outlines this mapping and acts as a useful guide when using Mathletics in your school.

Rene Burke
CEO, 3P Learning Canada

Engage	Target	Diagnose	Assess	Report	Fluency	Mobile

Mathletics

New Brunswick Outcomes
Alignment with Mathletics

New Brunswick Kindergarten

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	Activities	eBooks
Number	Number	NB.K.N.1	Say the number sequence by 1s, starting anywhere from 1 to 10 and from 10 to 1.	Count to 5 Order Numbers to 10 How Many?	Kindergarten Numbers and Patterns
Number	Number	NB.K.N.2	Recognize at a glance and name familiar arrangements of 1 to 5 objects or dots.	How Many? How many dots?	Kindergarten Numbers and Patterns
Number	Number	NB.K.N.3	Relate a numeral, 1 to 10, to its respective quantity.	How Many? Who has the Goods? How many dots? Balancing Act	Kindergarten Numbers and Patterns
Number	Number	NB.K.N.4	Represent and describe numbers 2 to 10 in two parts, concretely and pictorially.	How Many?	Kindergarten Numbers and Patterns
Number	Number	NB.K.N.5	Compare quantities, 1 to 10, using one-to-one correspondence.	How Many? More or Less? How many dots? More, Less or the Same to 10	Kindergarten Numbers and Patterns
Patterns and Relations	Patterns	NB.K.PR.1	Demonstrate an understanding of repeating patterns (two or three elements) by: identifying, reproducing, extending, creating patterns using manipulatives, sounds and actions.	Complete the Pattern Missing It! Colour Patterns Simple Patterns	Kindergarten Numbers and Patterns
Shape and Space	Measurement	MB.K.SS.1	Use direct comparison to compare two objects based on a single attribute, such as length (height), mass (weight), and volume (capacity).	Everyday Mass How Heavy? Which Holds More? Filling Fast! Balancing Act Same and Different Everyday Length	Kindergarten Measurement
Shape and Space	3-D Objects and 2-D Shapes	NB.K.SS.2	Sort 3-D objects using a single attribute	Collect the Objects Collect the Objects 1	Kindergarten Space and Shape
Shape and Space	3-D Objects and 2-D Shapes	NB.K.SS.3	Build and describe 3-D objects	Collect the Objects Collect the Objects 1 Match the Solid 1 Match the Solid 2 Match the Object	Kindergarten Space and Shape

New Brunswick Grade 1

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	Activities	eBooks
Number	Number	NB.1.N.1	Say the number sequence 0 to 100, by: 1s forward and backward between any two given numbers; 2s to 20, forward starting at 0; 5s and 10s to 100, forward starting at 0.	Making Numbers Count Making Big Numbers Count Number Lines Counting by 2s, 5, and 10s Counting Backward Counting Forward Going Up Going Down Counting By Twos Counting By Fives Counting By Tens Count by 2s, 5s and 10s 1 to 30 Before, After and Between to 20 Before, After & Between to 100 Matching Numbers to 20 Matching Numbers to 10 Arranging Numbers Making Teen Numbers Counting Back Within 20 Counting Up to 20	Grade 1 Numbers
Number	Number	NB.1.N.2	Recognize at a glance and name familiar arrangements of 1 to 10 objects or dots.	How Many?	Grade 1 Numbers
Number	Number	NB.1.N.3	Demonstrate an understanding of counting by: indicating that the last number said identifies "how many;" showing that any set has only one count; using the counting on strategy; using parts or equal groups to count sets.	Counting Backward Counting Forward Going Up Going Down Counting By Twos Counting By Fives Counting By Tens 1 to 30 Before, After & Between to 100 Arranging Numbers Counting Up to 20 Counting Back Within 20	Grade 1 Numbers
Number	Number	NB.1.N.4	Represent and describe numbers to 20, concretely, pictorially, and symbolically.	Matching Numbers to 10 Matching Numbers to 20 Arranging Numbers How Many? How many Blocks? Making Numbers Count Number Line Order	Grade 1 Numbers

New Brunswick Grade 1

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	▤ Activities	📖 eBooks
Number	Number	NB.1.N.5	Compare sets containing up to 20 elements to solve problems using: referents; one-to-one correspondence.	More or Less? Comparing Groups of Objects Order Numbers to 20 Number Line Order Arranging Numbers	Grade 1 Operations with Number
Number	Number	NB.1.N.6	Estimate quantities to 20 by using referents.	Under review	Grade 1 Operations with Number
Number	Number	NB.1.N.7	Demonstrate, concretely and pictorially, how a given number can be represented by a variety of equal groups with and without singles.	Making Equal Groups Divide Into Equal Groups Groups Groups of Two Groups of Five Divide Into Equal Groups	Grade 1 Numbers
Number	Number	NB.1.N.8	Identify the number, up to 20, that is one more, two more, one less, and two less than a given number.	1 more, 2 less	Grade 1 Numbers
Number	Number	NB.1.N.9	Demonstrate an understanding of addition of numbers with answers to 20 and their corresponding subtraction facts, concretely, pictorially, and symbolically by: using familiar and mathematical language to describe additive and subtractive actions from their experience; creating and solving problems in context that involve addition and subtraction; modelling addition and subtraction using a variety of concrete and visual representations, and recording the process symbolically.	Addition Facts Addition Model Addition Model Subtraction Subtraction Facts to 18 All about Ten All about Twenty Addictive Addition Simple Subtraction Problems: Add and Subtract Add and Subtract Problems Add and Subtract Using Graphs Adding to 10 Word Problems	Grade 1 Operations with Number
Number	Number	NB.1.N.10	Describe and use mental mathematics strategies (memorization not intended), such as: counting on and counting back; making 10; doubles; using addition to subtract for the basic addition and subtraction facts to 18.	All about Ten All about Twenty Addictive Addition Simple Subtraction Problems: Add and Subtract Fact Families: Add and Subtract Related Facts 1 1 more, 2 less Adding to make 5 and 10 Adding to Ten Doubles and Halves to 10 Composing Additions to 20	Grade 1 Operations with Number

New Brunswick Grade 1

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	Activities	eBooks
Patterns and Relations	Patterns	NB.1.PR.1	Demonstrate an understanding of repeating patterns (two to four elements) by: describing; reproducing; extending; creating patterns using manipulatives, diagrams, sounds and actions.	Simple Patterns Missing it! Pattern Error Increasing Patterns Decreasing Patterns Missing Values Colour Patterns Balancing Act	Grade 1 Patterns and Relationships
Patterns and Relations	Patterns	NB.1PR.2	Translate repeating patterns from one representation to another.	Simple Patterns Pattern Error Increasing Patterns Decreasing Patterns Colour Patterns Balancing Act	Grade 1 Patterns and Relationships
Patterns and Relations	Variables and Equations	NB.1.PR.3	Describe equality as a balance and inequality as an imbalance, concretely and pictorially (0 to 20).	Balance Numbers to 20 Balancing Act	
Patterns and Relations	Variables and Equations	NB.1.PR.4	Record equalities using the equal symbol.	More, less or the same to 10 More, less or the same to 20	Grade 1 Numbers
Shape and Space	Measurement	NB.1.SS.1	Demonstrate an understanding of measurement as a process of comparing by: identifying attributes that can be compared; ordering objects; making statements of comparison; filling, covering or matching.	Biggest Shape Filling Fast! Everyday Length	Grade 1 Measurement
Shape and Space	3-D Objects and 2-D Shapes	NB.1.SS.2	Sort 3-D objects and 2-D shapes using one attribute, and explain the sorting rule.	Sort it Collect the Shapes Collect the Objects Which Hold More? Collect Simple Shapes	Grade 1 Space and Shape
Shape and Space	3-D Objects and 2-D Shapes	NB.1.SS.3	Replicate composite 2-D shapes and 3-D objects.	Sort it Collect the Shapes Collect the Objects	Grade 1 Space and Shape
Shape and Space	3-D Objects and 2-D Shapes	NB.1.SS.4	Compare 2-D shapes to parts of 3-D objects in the environment.	Match the Solid 1 Match the Object	Grade 1 Space and Shape

New Brunswick Grade 2

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	☰ Activities	📖 eBooks
Number	Number	NB.2.N.1	Say the number sequence from 0 to 100 by: 2s, 5s and 10s, forward and backward, using starting points that are multiples of 2, 5 and 10 respectively; 10s using starting points from 1 to 9; 2s starting from 1.	Repartition Two-digit Numbers Counting by Twos Counting by Fives Counting by Tens Counting by 2s, 5s and 10s Counting on a 100 grid Going Up Number Line Order Going Down Skip Counting Skip Counting with coins	Grade 2 Numbers
Number	Number	NB.2.N.2	Demonstrate if a number (up to 100) is even or odd.	Odd and Even Numbers 1 Odd or Even	Grade 2 Numbers Grade 2 Patterns and Relationships
Number	Number	NB.2.N.3	Describe order or relative position using ordinal numbers (up to tenth).	1st to 31st Ordinal Numbers	Grade 2 Numbers
Number	Number	NB.2.N.4	Represent and describe numbers to 100, concretely, pictorially, and symbolically	Reading Numbers to 30 Model Numbers	Grade 2 Numbers
Number	Number	NB.2.N.5	Compare and order numbers up to 100.	Arranging Numbers Number Line Order Place value 1 Understanding Place Value 1 Greater or Less to 100 Compare numbers to 50	Grade 2 Numbers
Number	Number	NMB.2.N.6	Estimate quantities to 100 using referents.	Under Review	Grade 2 Operations with Number
Number	Number	NB.2.N.7	Illustrate, concretely and pictorially, the meaning of place value for numerals to 100.	Arranging Numbers Number Line Order Number Lines Make Numbers Count Making Numbers Count Making Big Numbers Count Understanding Place Value 1 Repartition Two-digit Numbers Making Equal Groups Place value 1	Grade 2 Numbers

New Brunswick Grade 2

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	Activities	eBooks
Number	Number	NB.2.N.8	Demonstrate and explain the effect of adding zero to or subtracting zero from any number.	Concept of zero	Grade 2 Numbers
Number	Number	NB.2.N.9	Demonstrate an understanding of addition (limited to 1- and 2-digit numerals) with answers to 100 and the corresponding subtraction by: using personal strategies for adding and subtracting; explaining that the order in which numbers are subtracted may affect the difference.	Related Facts 1 Compensation - Add Compensation - Subtract Add Numbers: Regroup a Ten Add 3 Numbers Using Bonds to 10 Adding In Any Order Commutative Property of Addition Doubles and Near Doubles Doubles and Halves to 10 Doubles and Halves to 20 Complements to 10, 20, 50 Addictive Addition Add Three 1-Digit Numbers Model Addition Add Two 2-Digit Numbers Adding to 2-digit numbers Bar model problems 1 Subtract Tens Subtract Numbers Subtract Numbers: Regroup Simple Subtraction Mental Subtraction	Grade 2 Operations with Number
Number	Number	NB.2N.10	Apply mental mathematics strategies, such as: using doubles; making 10; one more, one less; two more, two less; addition for subtraction to determine basic addition facts to 18 and related subtraction facts.	Related Facts 1 Compensation - Add Compensation - Subtract Add Numbers: Regroup a Ten Add 3 Numbers Using Bonds to 10 Adding In Any Order Commutative Property of Addition Doubles and Near Doubles Doubles and Halves to 10 Doubles and Halves to 20 Repartition to Subtract	Grade 2 Operations with Number

New Brunswick Grade 2

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	Activities	eBooks
Patterns and Relations	Patterns	NB.2.PR.1	Demonstrate an understanding of repeating patterns (three to five elements) by: describing; extending; comparing; creating patterns using manipulatives, diagrams, sounds and actions.	Simple Patterns Pattern Error Increasing Patterns Describing Patterns Decreasing Patterns Missing Values Colour Patterns Count Backward Patterns Count Forward Patterns	Grade 2 Patterns and Relationships
Patterns and Relations	Patterns	NB.2.PR.2	Demonstrate an understanding of increasing patterns by: describing; reproducing; extending; creating patterns using manipulatives, diagrams, sounds and actions (numbers to 100).	Count Forward Patterns Simple Patterns Pattern Error Increasing Patterns Colour Patterns	Grade 2 Patterns and Relationships
Patterns and Relations	Variables and Equations	NB.2.PR.3	Demonstrate and explain the meaning of equality and inequality by using manipulatives and diagrams (0 to 100).	Missing Values Balancing Act	Grade 3 Patterns and Algebra
Patterns and Relations	Variables and Equations	NB.2.PR.4	Record equalities and inequalities symbolically using the equal symbol or the not equal symbol.	Compare Numbers to 20 Compare Numbers to 50 Compare Numbers to 100	Grade 2 Numbers
Shape and Space	Measurement	NB.2.SS.1	Relate the number of days to a week and the number of months to a year in a problem-solving context.	Days of the Week Months of the Year Using a Calendar	Grade 2 Time and Monday
Shape and Space	Measurement	NB.2.SS.2	Relate the size of a unit of measure to the number of units (limited to non-standard units) used to measure length and mass (weight).	Measuring length with blocks Everyday Length Comparing Length Balancing Act Everyday Mass How Long is That?	Grade 2 Measurement
Shape and Space	Measurement	NB.2.SS.3	Compare and order objects by length, height, distance around the mass (weight) using non-standard units, and make statements of comparison.	Measuring length with blocks Balancing Act	Grade 2 Measurement

New Brunswick Grade 2

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	Activities	eBooks
	Measurement	NB.2.SS.4	Measure length to the nearest non-standard unit by: using multiple copies of a unit; using a single copy of a unit (iteration process).	Measuring length with blocks	Grade 2 Measurement
Shape and Space	3-D Objects and 2-D Shapes	NB.2.SS.5	Demonstrate that changing the orientation of an object does not alter the measurements of its attributes.	Under review	Under review
Shape and Space	3-D Objects and 2-D Shapes	NB.2.SS.6	Sort 2-D shapes and 3-D objects using two attributes, and explain the sorting rule.	Sort It Collect the Shapes Collect the Shapes 1 Collect the Shapes 2 Collect Simple Shapes Collect the Objects Collect the Objects 1 Collect the Objects 2	Grade 2 Space and Shape
Shape and Space	3-D Objects and 2-D Shapes	NB.2.SS.7	Describe, compare, and construct 3-D objects, including: cubes; spheres; cones; cylinders; pyramids.	Sort It Collect the Shapes Collect the Shapes 1 Collect the Shapes 2 Collect Simple Shapes Collect the Objects Collect the Objects 1 Collect the Objects 2	Grade 2 Space and Shape
Shape and Space	3-D Objects and 2-D Shapes	NB.2.SS.8	Describe, compare, and construct 2-D shapes, including: triangles; squares; rectangles; circles.	Sort It Collect the Shapes Collect the Shapes 1 Collect the Shapes 2 Collect Simple Shapes Collect the Objects Collect the Objects 1 Collect the Objects 2	Grade 2 Space and Shape
Shape and Space	3-D Objects and 2-D Shapes	NB.2.SS.9	Identify 2-D shapes as parts of 3-D objects in the environment.	Match the Object Match the Solid 1 Match the Solid 2 Relate Shapes and Solids	Grade 2 Space and Shape

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New Brunswick Grade 2

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	Activities	eBooks
Statistics and Probability	Data Analysis	NB.2.SP.1	Gather and record data about self and others to answer questions.	Tallies Making Graphs Sorting Data	Grade 2 Chance and Data
Statistics and Probability	Data Analysis	NB.2.SP.2	Construct and interpret concrete graphs and pictographs to solve problems.	Add and Subtract Using Graphs Pictographs	Grade 2 Chance and Data

New Brunswick Grade 3

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	Activities	eBooks
Number	Number	NB.3.N.1	Say the number sequence forward and backward from 0 to 1000 by: 5s, 10s, or 100s, using any starting point; 3s using starting points that are multiples of 3; 4s using starting points that are multiples of 4; 25s using starting points that are multiples of 25.	Counting by Fives Counting by Tens Skip Counting Money Who has the Money? Skip Counting with coins	Grade 2 Numbers
Number	Number	NB.3.N.2	Represent and describe numbers to 1000, concretely, pictorially, and symbolically.	Model Numbers How many Blocks?	Grade 3 Reading and Understanding Whole Numbers
Number	Number	NB.3.N.3	Compare and order numbers to 1000.	Which is Bigger? Which is Smaller? Compare Numbers to 100 Ascending Order Descending Order	Grade 3 Reading and Understanding Whole Numbers
Number	Number	NB.3.N.4	Estimate quantities less than 1000 using referents.	Nearst 10? Nearest 100?	
Number	Number	NB.3.N.5	Illustrate, concretely and pictorially, the meaning of place value for numerals to 1000.	How many Blocks? Model Numbers Understanding Place Value 1 Place value 2	Grade 3 Reading and Understanding Whole Numbers
Number	Number	NB.3.N.6	Describe and apply mental mathematics strategies for adding two 2-digit numerals.	Add Two 2-Digit Numbers Add Two 2-Digit Numbers: Regroup Addition Facts Complements to 50 and 100 Columns that Add Magic Mental Addition Column Addition Add Numbers: Regroup a Ten Strategies for Column Addition Addition Properties Fact Families: Add and Subtract	Grade 3 Addition and Subtraction

New Brunswick Grade 3

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	Activities	eBooks
Number	Number	NB.3.N.7	Describe and apply mental mathematics strategies for subtracting two 2-digit numerals.	2-Digit Differences 2-Digit Differences: Regroup Subtract Numbers: Regroup Subtraction Facts to 18 Subtract Numbers Decompose Numbers to Subtract Columns that Subtract Column Subtraction Magic Mental Subtraction	Grade 3 Addition and Subtraction
Number	Number	NB.3.N.8	Apply estimation strategies to predict sums and differences of two 2-digit numerals in a problem-solving context.	Estimation: Add and Subtract Estimate Sums Estimate Differences	Grade 3 Addition and Subtraction
Number	Number	NB.3.N.9	Demonstrate an understanding of addition and subtraction of numbers with answers to 1000 (limited to 1-, 2-, and 3-digit numerals).	Problems: Add and Subtract Word Problems: Add and Subtract	Grade 3 Addition and Subtraction
Number	Number	NB.3.N.10	Apply mental mathematics strategies and number properties, such as: using doubles; making 10; using the commutative property; using the property of zero; thinking addition for subtraction to determine answers for basic addition facts and related subtraction facts (to 18).	Addition Properties Commutative Property of Addition Fact Families: Add and Subtract Related Facts 1	Grade 3 Addition and Subtraction
Number	Number	NB.3.N.11	Demonstrate an understanding of multiplication to 5 × 5.	Multiplication Arrays Arrays 1 Arrays 2 Multiplication Facts Model Multiplication to 5 x 5 Groups Groups of Two Groups of Five Groups of Four Groups of Three Frog Jump Multiplication	Grade 3 Multiplication and Division

New Brunswick Grade 3

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	Activities	eBooks
Number	Number	NB.3.N.12	Demonstrate an understanding of division (limited to division related to multiplication facts up to 5 x 5.	Fill the Jars Making Equal Groups Divide Into Equal Groups Dividing Twos Dividing Threes Dividing Fours Dividing Fives	Grade 3 Multiplication and Division
Number	Number	NB.3.N.13	Demonstrate an understanding of fractions by: explaining that a fraction represents a part of a whole; describing situations in which fractions are used; comparing fractions of the same whole with like denominators.	Shape Fractions Model Fractions Compare fractions 1a Compare fractions 1b Halves and Quarters Thirds and Sixths Is it half?	Grade 3 Fractions
Patterns and Relations	Patterns	NB.3.PR.1	Demonstrate an understanding of increasing patterns by: describing, extending, comparing, creating patterns using manipulatives, diagrams, sounds and actions (numbers to 1000).	Simple Patterns Pattern Error Increasing Patterns Colour Patterns Count Forward Patterns Count Backward Patterns Describing Patterns	Grade 3 Patterns and Relationships
Patterns and Relations	Patterns	NB.3.PR.2	Demonstrate an understanding of decreasing patterns by: describing, extending, comparing, creating patterns using manipulatives, diagrams, sounds and actions (numbers to 1000).	Simple Patterns Pattern Error Decreasing Patterns Colour Patterns Count Backward Patterns	Grade 3 Patterns and Relationships
Patterns and Relations	Variables and Equations	NB.3.PR.3	Solve one-step addition and subtraction equations involving symbols representing an unknown number.	Word Problems: Add and Subtract Solve Equations: Add, Subtract 1 Word problems with letters Bar model problems 1 Bar model problems 2 Missing Values	Grade 3 Addition and Subtraction

New Brunswick Grade 3

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	Activities	eBooks
Shape and Space	Measurement	NB.3.SS.1	Relate the passage of time to common activities using non-standard and standard units (minutes, hours, days, weeks, months, years).	Days of the Week Months of the Year Hour Times Half Hour Times What is the Time? Time Mentals Elapsed Time What Time Will it Be? Tell Time to the Half Hour Five Minute Times	Grade 3 Time
Shape and Space	Measurement	NB.3.SS.2	Relate the number of seconds to a minute, the number of minutes to an hour, and the number of days to a month in a problem-solving context.	Using a Calendar	Grade 3 Time
Shape and Space	Measurement	NB.3.SS.3	Demonstrate an understanding of measuring length (cm, m) by: selecting and justifying referents for the units cm and m; modelling and describing the relationship between the units cm and m; estimating length using referents; measuring and recording length,width and height.	Comparing Length Everyday Length Measuring Length Compare Length Compare Length 1 How Long is That?	Grade 3 Measurement
Shape and Space	Measurement	NB.3.SS.4	Demonstrate an understanding of measuring mass (g, kg).	How Heavy? Everyday Mass	Grade 3 Measurement
Shape and Space	Measurement	NB.3.SS.5	Demonstrate an understanding of perimeter of regular and irregular shapes.	Perimeter of Shapes Perimeter	Grade 3 Measurement
Shape and Space	3-D Objects and 2-D Shapes	NB.3.SS.6	Describe 3-D objects according to the shape of the faces, and the number of edges and vertices.	How many Faces? How many Edges? How many Corners? Faces, Edges and Vertices	Grade 3 Space, Shape and Position
Shape and Space	3-D Objects and 2-D Shapes	NB.3.SS.7	Sort regular and irregular polygons, including: triangles, quadrilaterals, pentagons, hexagons, octagons, according the number of sides.	Collect the Shapes 2 Collect the Polygons	Grade 3 Space, Shape and Position

New Brunswick Grade 3

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	Activities	eBooks
Statistics and Probability	Data Analysis	NB.3.SP.1	Collect first-hand data and organize it using: tally marks, line plots, charts, lists to answer questions.	Sorting Data 1 Tallies Bar Graphs 1 Bar Graphs 2 Interpreting Tables Line Graphs: Interpretation Line Graphs: Reading Line Graphs: Explanation	Grade 3 Chance and Data
Statistics and Probability	Data Analysis	NB.3.SP.1	Construct, label, and interpret bar graphs to solve problems.	Sorting Data 1 Tallies Bar Graphs 1 Interpreting Tables Line Graphs: Interpretation Line Graphs: Interpretation 1 Bar Graphs 2	Grade 3 Chance and Data

New Brunswick Grade 4

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	Activities	eBooks
Number	Number	NB.4.N.1	Represent and describe whole numbers to 10 000, pictorially and symbolically.	Expanded Notation Understanding Place Value 2 Partition and rename 1 Place Value to Thousands Place value 3 Expanding Numbers Numbers from Words to Digits 1 Numbers from Words to Digits 2	Grade 4 Reading and Understanding Whole Numbers
Number	Number	NB.4.N.2	Compare and order numbers to 10 000.	Greater Than or Less Than? Ascending Order Descending Order Which is Greater? Which is Less?	Grade 4 Patterns and Algebra
Number	Number	NB.4.N.3	Demonstrate an understanding of addition of numbers with answers to 10 000 and their corresponding subtractions (limited to 3- and 4-digit numerals).	Adding Colossal Columns Estimation: Add and Subtract Add Three 2-Digit Numbers Add Three 2-Digit Numbers: Regroup Add 3-Digit Numbers Add 3-Digit Numbers: Regroup Add Multi-Digit Numbers 1 Add Three 3-Digit Numbers: Regroup Subtracting Colossal Columns 3-Digit Differences 3-Digit Differences with Zeros 3-Digit Differences: 1 Regrouping 3-Digit Differences: 2 Regroupings Budgeting Estimate Differences Estimate Sums	Grade 4 Addition and Subtraction
Number	Number	NB.4.N.4	Explain the properties of 0 and 1 for multiplication, and the property of 1 for division.	Under review	

New Brunswick Grade 4

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	Activities	eBooks
Number	Number	NB.4.N.5	Describe and apply mental mathematics strategies, such as: skip counting from a known fact; 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 x 9 and related division facts.	Problems: Multiply and Divide Multiply and Divide Problems 1 Word Problems: Multiply and Divide Divisibility Tests Divisibility Tests (2, 5, 10) Divisibility Tests (3, 4, 9) Double and Halve to Multiply Missing Numbers: x and ÷ facts Equivalent Facts: Multiply Fact Families: Multiply and Divide Multiplication Grids	Grade 4 Multiplication and Division
Number	Number	NB.4.N.6	Demonstrate an understanding of multiplication (2- or 3-Digit by 1-Digit) to solve problems.	Multiplication Arrays Arrays 1 Arrays 2 Multiplication Problems 1 Problems: Multiply and Divide Multiply: 1-Digit Number Multiply: 1-Digit Number, Regroup Multiply: 2-Digit by 1-Digit Multiply: 2-Digit Number, Regroup Multiply Multiples of 10 Multiply More Multiples of 10 Multiplication Facts Times Tables Multiplication Properties Multiply 3 single-digit numbers Groups of Six Groups of Seven Groups of Eight Groups of Nine Groups of Ten	Grade 4 Multiplication and Division

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New Brunswick Grade 4

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	▤ Activities	📖 eBooks
Number	Number	NB.4.N.7	Demonstrate an understanding of division (1-Digit divisor and up to 2-Digit dividend) to solve problems: using personal strategies for dividing with and without concrete materials; estimating quotients; relating division to multiplication.	Division Facts Division Facts 1 Remainders by Arrays Divide: 1-Digit Divisor 1 Divide: 1-Digit Divisor 2 Divide: 1-Digit Divisor, Remainder Estimation: Multiply and Divide Dividing Twos Dividing Threes Dividing Fours Dividing Fives Dividing Sixes Dividing Sevens Dividing Eights Dividing Nines Dividing Tens Short Division Long Division	Grade 4 Multiplication and Division
Number	Number	NB.4.N.8	Demonstrate an understanding of fractions less than or equal to one by using concrete and pictorial representations to: name and record fractions for the parts of a whole or a set; compare and order fractions; model and explain that for different wholes, two identical fractions may not represent the same quantity; provide examples of where fractions are used.	Partition into Equal Parts Fractions of a Collection Fraction Fruit Sets 1 Equivalent Fraction Wall 1 Counting with Fractions on a Number Line Identifying Fractions on a Number Line What Fraction is Shaded? Equivalent Fractions Compare Fractions 2 Comparing Fractions 1 Ordering Fractions	Grade 4 Fractions
Number	Number	NB.4.N.9	Describe and represent decimals (tenths and hundredths) concretely, pictorially, and symbolically.	Decimals from Words to Digits 1 Decimal Order 1 Decimals on the Number Line Decimal Place Value Comparing Decimals 1	Grade 4 Fractions
Number	Number	NB.4.N.10	Relate decimals to fractions (to hundredths).	Decimals to Fractions 1 Decimals to Fractions 2 Fractions to Decimals	Grade 4 Fractions

New Brunswick Grade 4

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	Activities	eBooks
Number	Number	NB.4.N.11	Demonstrate an understanding of addition and subtraction of decimals (limited to hundredths) by: using compatible numbers; estimating sums and differences; using mental math strategies to solve problems.	Add Decimals 1 Nearest Whole Number Rounding Decimals 1 Decimal Complements Subtract Decimals 1	Grade 4 Fractions
Patterns and Relations	Patterns	NB.4.PR.1	Identify and describe patterns found in tables and charts, including a multiplication chart.	Increasing Patterns Decreasing Patterns Missing it! Pick the Next Number Describing Patterns Pattern Error	Grade 4 Patterns and Algebra
Patterns and Relations	Patterns	NB.4.PR.2	Reproduce a pattern shown in a table or chart using concrete materials.	Increasing Patterns Decreasing Patterns Missing it! Pick the Next Number Describing Patterns Pattern Error Caroll Diagram	Grade 4 Patterns and Algebra
Patterns and Relations	Patterns	NB.4.PR.3	Represent and describe patterns and relationships using charts and tables to solve problems.	Increasing Patterns Decreasing Patterns Missing it! Pick the Next Number Describing Patterns Pattern Error Caroll Diagram	Grade 4 Patterns and Algebra
Patterns and Relations	Patterns	NB.4.PR.4	Identify and explain mathematical relationships using charts and diagrams to solve problems.	Venn Diagram 1 Caroll Diagram	Grade 5 Data Representation
Patterns and Relations	Variables and Equations	NB.4.PR.5	Express a given problem as an equation in which a symbol is used to represent an unknown number.	Missing Values Missing Values: Decimals Find the Missing Number 1 I am Thinking of a Number! Missing Numbers: Variables	Grade 4 Patterns and Algebra
Patterns and Relations	Variables and Equations	NB.4.PR.6	Solve one-step equations involving a symbol to represent an unknown number.	Problems: Multiply and Divide 1 Problems: Add and Subtract 2	Grade 4 Patterns and Algebra

Mathletics

New Brunswick Grade 4

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	Activities	eBooks
Shape and Space	Measurement	NB.4.SS.1	Read and record time using digital and analog clocks, including 24-hour clocks.	What is the Time? Time Mentals Elapsed Time 24 Hour Time What Time Will it Be? Hours and Minutes Five Minute Times	Grade 4 Time
Shape and Space	Measurement	NB.4.SS.2	Read and record calendar dates in a variety of formats.	Using a Calendar	Grade 4 Time
Shape and Space	Measurement	NB.4.SS.3	Demonstrate an understanding of area of regular and irregular 2-D shapes.	Area of Shapes Equal Areas Area: Squares and Rectangles	Grade 4 Length, Area and Perimeter
Shape and Space	3-D Objects and 2-Shapes	NB.4.SS.4	Describe and construct rectangular and triangular prisms.	Area of Shapes Equal Areas Area: Squares and Rectangles	Grade 4 Length, Area and Perimeter
Shape and Space	Transformations	NB.4.SS.5	Demonstrate an understanding of line of symmetry by: identifying symmetrical 2-D shapes; creating symmetrical 2-D shapes; drawing one or more lines of symmetry in a 2-D shape.	How many Faces? How many Edges? How many Corners? What Prism am I? Faces. Edges and Vertices Faces, Edges and Vertices 1	Grade 4 Shape, Space and Position
Shape and Space	Transformations	NB.4.SS.6	Demonstrate an understanding of congruency, concretely and pictorially.	Symmetry Symmetry or Not?	Grade 4 Shape, Space and Position
Statistics and Probability	Data Analysis	NB.4.SP.1	Demonstrate an understanding of many-to-one correspondence.	Under review	Under review
Statistics and Probability	Data Analysis	NB.4.SP.2	Construct and interpret pictographs and bar graphs involving many-to-one correspondence to draw conclusions.	Bar Graphs 1 Bar Graphs 2 Pictographs Divided Bar Graphs Reading from a Bar Chart	Grade 4 Chance and Data

Mathletics

New Brunswick Grade 5

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	📋 Activities	📖 eBooks
Number	Number	NB.5.N.1	Represent and describe whole numbers to 1 000 000.	Numbers in Words Numbers from Words to Digits 1 Numbers from Words to Digits 2 Numbers from Words to Digits 3 Place Value to Millions Expanding Numbers Partition and rename 3 Expanded Notation Place Value 1 (x 10 and ÷ 10) Place Value 2 (x 10 and ÷ 10) Place value 3	Grade 5 Reading and Understanding Whole Numbers
Number	Number	NB.5.N.2	Use estimation strategies, including: front-end rounding; compensation; compatible numbers in problem solving contexts.	Estimation: Add and Subtract Estimation: Multiply and Divide Estimate Products Estimate Sums Estimate Differences Estimate Quotients Estimate Decimal Differences 1 Estimate Decimal Sums 1 Estimate Decimal Differences 2 Estimate Decimal Sums 2 Nearest 100? Nearest 1000? Nearest Whole Number Rounding Numbers Rounding Numbers for Division	Grade 5 Reading and Understanding Whole Numbers
Number	Number	NB.5.N.3	Apply mental mathematics strategies and number properties, such as: skip counting from a known fact; using doubling or halving; using patterns in the 9s facts; using repeated doubling or halving to determine answers for basic multiplication facts to 81 and related division facts.	Multiplication Arrays Multiplication Facts Multiplication Properties Mental Methods Multiplication Division Facts Related Facts 2 Arrays 1 Arrays 2 Multiplication Grids Equivalent Facts: Multiply Double and Halve to Multiply Compatible Numbers	Grade 5 Multiplication and Division

New Brunswick Grade 5

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	▤ Activities	📖 eBooks
Number	Number	NB.5.N.4	Apply mental mathematics strategies for multiplication, such as: annexing then adding zero; halving and doubling; using the distributive property.	Multiplying by 10, 100, 1000 Double and Halve to Multiply Multiplication Properties Mental Methods Multiplication Mental Methods Multiplication 2 Mental Methods Multiplication 3	Grade 5 Multiplication and Division
Number	Number	NB.5.N.5	Demonstrate an understanding of multiplication (2-digit by 2-digit) to solve problems.	Multiply: 1-Digit Number Multiply: 1-Digit Number, Regroup Multiply: 2-Digit by 1-Digit Multiply: 2-Digit Number, Regroup Multiply 2 Digits Area Model	Grade 5 Multiplication and Division
Number	Number	NB.5.N.6	Demonstrate, with and without concrete materials, an understanding of division (3-Digit by 1-Digit) and interpet remainders to solve problems.	Division Facts Mental Methods Division Mental Methods Division 1 Mental Methods Division 2 Divide: 1-Digit Divisor 1 Divide: 1-Digit Divisor 2 Divide: 1-Digit Divisor, Remainder Compatible Numbers Divisibility Tests Tests of Divisibility 1 Divisibility Tests (2, 5, 10) Divisibility Tests (3, 4, 9) Remainders by Arrays Short Division Divide: 1-Digit Divisor 2 Divide: 1-Digit Divisor, Remainder	Grade 5 Multiplication and Division
Number	Number	NB.5.N.7	Demonstrate an understanding of fractions by using concrete and pictorial representations to: create sets of equivalent fractions; compare fractions with like and unlike denominators.	Shading Equivalent Fractions Ordering Fractions Simplifying Fractions Comparing Fractions 1 Comparing Fractions 2 Equivalent Fractions Equivalent Fraction Wall 2 Fraction Fruit Sets 2 Equivalent Fractions on a Number Line 2 Fractions of a Collection Fractions of a Collection 1 Fractions of a Collection 2 Fraction Length Models 1 Fraction Length Models 2 Fraction Wall Labelling 1 Fraction Wall Labelling 2 Partition into Equal Parts	Grade 5 Fractions, Decimals and Percentages

New Brunswick Outcomes
Alignment with Mathletics

Mathletics

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	Activities	eBooks
Number	Number	NB.5.N.8	Describe and represent decimals (tenths, hundredths, thousandths) concretely, pictorially, and symbolically.	Rounding Decimals Rounding Decimals 1 Rounding Decimals 2 Decimal Complements Decimals on a Number Line Decimals on the Number Line Decimals from Words to Digits 2 Decimal Place Value	Grade 5 Fractions, Decimals and Percentages
Number	Number	NB.5.N.9	Relate decimals to fractions (to thousandths).	Decimals to Fractions 1 Decimals to Fractions 2 Fractions to Decimals Fractions to Decimals 2 Fraction to Terminating Decimal	Grade 5 Fractions, Decimals and Percentages
Number	Number	NB.5.N.10	Compare and order decimals (to thousandths).	Comparing Decimals 1 Comparing Decimals 2 Decimal Order Comparing Decimals	Grade 5 Fractions, Decimals and Percentages
Number		NB.5.N.11	Demonstrate an understanding of addition and subtraction of decimals (limited to thousandths).	Subtract Decimals 1 Subtract Decimals 2 Subtracting Decimals Add Decimals 1 Add Decimals 2 Adding and Subtracting Decimals Adding Decimals	Grade 5 Fractions, Decimals and Percentages
Patterns and Relations	Patterns	NB.5.PR.1	Determine the pattern rule to make predictions about subsequent terms (elements).	Describing Patterns I am Thinking of a Number! Pattern Error	Grade 5 Patterns and Algebra
Patterns and Relations	Variables and Equations	NB.5.PR.2	Solve problems involving single-variable, one-step equations with whole-number coefficients and whole-number solutions.	Solve Equations: Add, Subtract 1 Solve Equations: Multiply, Divide 1 Problems: Multiply and Divide 1 Problems: Add and Subtract 1 Find the Missing Number 1 Find the Missing Number 2 Missing Values Missing Numbers Magic Symbols 1 Magic Symbols 2	Grade 5 Patterns and Algebra

New Brunswick Grade 5

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	▤ Activities	📖 eBooks
Shape and Space	Measurement	NB.5.SS.1	Design and construct different rectangles given either perimeter or area, or both (whole numbers), and draw conclusions.	Perimeter of Shapes Perimeter Perimeter: Squares and Rectangles Perimeter Detectives 1 Perimeter, Area, Dimension Change Equal Areas Areas of Shapes	Grade 5 Length, Perimeter and Area
Shape and Space	Measurement	NB.5.SS.2	Demonstrate an understanding of measuring length (mm and km).	Converting cm and mm Converting Units of Length Centimetres and Metres Measuring Length	Grade 5 Length, Perimeter and Area
Shape and Space	Measurement	NB.5.SS.3	Demonstrate an understanding of volume.	Volume: Cuboid 1 Volume: Rectangular Prisms 1	Grade 5 Volume, Capacity and Mass
Shape and Space	Measurement	NB.5.SS.4	Demonstrate an understanding of capacity.	Millilitres and Litres Capacity Word Problems	Grade 5 Volume, Capacity and Mass
Shape and Space	3-D Objects and 2-D Shapes	NB.5.SS.5	Describe and provide examples of edges and faces of 3-D objects, and sides of 2-D shapes that are: parallel; intersecting; perpendicular; vertical; horizontal.	Faces, Edges and Vertices Faces, Edged and Vertices 1 What Pair of Lines Am I?	Grade 5 Geometry
Shape and Space	3-D Objects and 2-D Shapes	NB.5.SS.6	Identify and sort quadrilaterals, including: rectangles; squares; trapezoids; parallelograms; rhombuses according to their attributes.	Collect the Shapes 2 Collect the Objects 2 Collect the Polygons Shapes	Grade 5 Geometry
Shape and Space	Transformations	NB.5.SS.7	Perform a single transformation (translation, rotation, or reflection) of a 2-D shape)with and without technology), and draw and describe the image.	Transformations Flip, Slide, Turn	Grade 5 Geometry
Shape and Space	Transformations	NB.5.SS.8	Identify a single transformation including a translation, rotation and reflection of 2-D shapes.	Transformations Flip, Slide, Turn	Grade 5 Geometry

New Brunswick Grade 5

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	Activities	eBooks
Statistics and Probability	Data Analysis	NB.5.SP.1	Differentiate between first-hand and second-hand data.	Under Review	Grade 5 Chance and Data
Statistics and Probability	Data Analysis	NB.5.SP.2	Construct and interpret double bar graphs to draw conclusion.	Bar Graphs 2 Interpreting Tables Analyzing Data	Grade 5 Chance and Data
Statistics and Probability	Chance and Uncertainty	NB.5.SP.3	Describe the likelihood of a single outcome occurring using words , such as: impossible, possible, certain.	What are the Chances? How many Combinations? Most Likely and Least Likely Possible Outcomes Fair Games	Grade 5 Chance and Data
Statistics and Probability	Chance and Uncertainty	NB.5.SP.4	Compare the likelihood of two possible outcomes occurring using words, such as: less likely; equally likely; more likely.	What are the Chances? How many Combinations? Most Likely and Least Likely Possible Outcomes Fair Games	Grade 5 Chance and Data

New Brunswick Grade 6

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	📋 Activities	📖 eBooks
Number	Number	NB.6.N.1	Demonstrate an understanding of place value for numbers greater than one million; less than one thousandth.	Place Value to Billions Place value 3 Partition and rename 3 Comparing Numbers Decimal Order 1 Decimal Order 2 Comparing Decimals 2 Understanding Place Value 3 Numbers from Words to Digits 3 Place Value 2 (x 10 and ÷ 10)	Grade 6 Reading and Understanding Whole Numbers
Number	Number	NB.6.N.2	Solve problems involving large numbers, using technology.	Estimate Decimal Differences 2 Estimate Decimal Sums 2 Estimate Sums Estimate Products Estimate Quotients Estimate Decimal Operations Estimate Differences Multiplying by 10, 100, and 1000 Dividing by 10, 100, 1000 3-Digit Differences: 2 Regroupings Add Three 3-Digit Numbers: Regroup Multiply 2 Digits Area Model Adding Colossal Columns Subtracting Colossal Columns	Grade 6 Fractions, Decimals and Percentages
Number	Number	NB.6.N.3	Demonstrate an understanding of factors and multiples by: determining multiples and factors of numbers less than 100 identifying prime and composite numbers; solving problems involving multiples.	Least Common Multiple Multiples Factors Greatest Common Factor Product of Prime Factors Prime or Composite? Prime Factoring Find the Factor	Grade 7 Whole Numbers
Number	Number	NB.6.N.4	Relate improper fractions to mixed numbers.	Converting Mixed and Improper Mixed to Improper Improper to Mixed Comparing Fractions 2 Identifying fractions beyond 1 Mixed and Improper Numbers on a Number Line What Mixed Number Is Shaded?	Grade 6 Fractions, Decimals and Percentages

Mathletics

New Brunswick Grade 6

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	Activities	eBooks
Number	Number	NB.6.N.5	Demonstrate an understanding of ratio, concretely, pictorially, and symbolically.	Fractions to Decimals Fractions to Decimals 2 Ratio Ratios Equivalent Ratios Dividing a Quantity in a Ratio Ratio Word Problems Ratio and Proportion Solve Proportions Unitary Method Best Buy Simplify Ratios: 2 Whole Numbers	Under review
Number	Number	NB.6.N.6	Demonstrate an understanding of percent (limited to whole numbers), concretely, pictorially, and symbolically.	Calculating Percentages Percent of a Number Decimal to Percentage Percents and Decimals Percentage of a Quantity Percents to Fractions Percent Increase and Decrease Percentage of a Quantity >100% Percentage Word Problems Solve Percent Equations Modelling Percentages Match Decimals and Percentages What Percentage?	Grade 6 Fractions, Decimals and Percentages
Number	Number	NB.6.N.7	Demonstrate an understanding of integers, concretely, pictorially, and symbolically.	Integers: Add and Subtract Add Integers Ordering Integers Comparing Integers More with Integers Integers on a Number Line Ordering Integers (Number Line) Integers: Order of Operations (BEDMAS) Order of Operations 1 (BEDMAS) Integers: Subtraction Subtract Integers	Grade 7 Directed Numbers

New Brunswick Grade 6

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	Activities	eBooks
Number	Number	NB.6.N.8	Demonstrate an understanding of multiplication and division of decimals (1-Digit whole number multipliers and 1-Digit natural number divisors).	Multiply Decimals and Powers of 10 Multiply Decimals: 10, 100, 1000 Divide Decimals: 10, 100, 1000 Divide by Powers of 10 Divide Decimal by Whole Number Decimal by Whole Number Missing Values: Decimals Rounding Decimals 1 Rounding Decimals 2 Money Problems: Four Operations	Grade 6 Multiplication and Division
Number	Number	NB.6.N.9	Explain and apply the order of operations, excluding exponents , with and without technology (limited to whole numbers).	Integers: Order of Operations (BEDMAS) Order of Operations 1: (BEDMAS)	Grade 7 Directed Numbers
Patterns and Relations	Patterns	NB.6.PR.1	Demonstrate an understanding of the relationships within tables of values to solve problems.	Table of Values Find the Pattern Rule Find the Function Rule Pattern Rules and Tables Function Rules and Tables	Grade 6 Patterns and Algebra
Patterns and Relations	Patterns	NB.6.PR.2	Represent and describe patterns and relationships using graphs and tables.	Ordered Pairs Coordinate Graphs Coordinate Graphs: 1st Quadrant Graphing from a Table of Values	Grade 6 Position Grade 7 The Number Plane
Patterns and Relations	Variables and Equations	NB.6.PR.3	Represent generalizations arising from number relationships using equations with letter variables.	Commutative Property of Addition Multiplication Properties Write an Equation: Word Problems Writing Equations Writing Algebraic Expressions Solving Simple Equations Missing Numbers: Variables Magic Symbols 2 Pyramid Puzzles 2 Missing Values	Grade 6 Patterns and Algebra
Patterns and Relations	Variables and Equations	NB.6.PR.4	Demonstrate and explain the meaning of preservation of equality concretely, pictorially and symbolically.	Writing Equations Writing Algebraic Expressions Write an Equation: Word Problems	Grade 6 Patterns and Algebra

New Brunswick Grade 6

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	▤ Activities	📖 eBooks
Shape and Space	Measurement	NB.6.SS.1	Demonstrate an understanding of angles by: identifying examples of angles in the environment; classifying angles according to their measure; estimating the measure of angles using 45°, 90° and 180° as reference angles; determining angle measures in degrees; drawing and labelling angles when the measure is specified.	Equal Angles Comparing Angles Classifying Angles Measuring Angles Estimating Angles Labelling Angles Triangles: Acute, Right, Obtuse	Grade 6 Geometry
Shape and Space	Measurement	NB.6.SS.2	Demonstrate that the sum of interior angles is: 180° in a triangle; 360° in a quadrilateral.	Angle Sum of a Triangle Angle Measures in a Triangle Angle Sum of a Quadrilateral Angles of Revolution: Unknown Angles	Grade 7 Angles and Polygons
Shape and Space	Measurement	NB.6.SS.3	Develop and apply a formula for determining the perimeter of polygons, area of rectangles and volume of right rectangular prisms.	Perimeter: Squares and Rectangles Perimeter: Composite Shapes Perimeter Detectives 1 Perimeter Detectives 2 Perimeter: Triangles Perimeter: Triangles 2 Area: Squares and Rectangles Area: Squares and Rectangles 1 Area: Squares and Rectangles 2 Volume: Rectangular Prisms 2 Volume: Rectangular Prisms 1	Grade 6 Length, Perimeter and Area Grade 6 Volume, Capacity and Mass
Shape and Space	3-D Objects and 2-D Shapes	NB.6.SS.4	Construct and compare triangles, including: scalene; isosceles; equilateral; right; obtuse; and acute in different orientations.	Angle Sum of a Triangle Angle Measures in a Triangle	Grade 7 Angles and Polygons
Shape and Space	3-D Objects and 2-D Shapes	NB.6.SS.5	Describe and compare the sides and angles of regular and irregular polygons.	Faces, Edges and Vertices Faces, Edges and Vertices 1 How Many Vertices?	Grade 6 Geometry
Shape and Space	Transformations	NB.6.SS.6	Perform a combination of transformations (translations, rotations, or reflections) on a single 2-D shape, with and without technology, and draw and describe the image.	Congruent Figures	Grade 6 Geometry

New Brunswick Grade 6

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	Activities	eBooks
Shape and Space	Transformations	NB.6.SS.7	Perform a combination of successive transformations of 2-D shapes to create a design, and identify and describe the transformations.	Flip, Slide, Turn Transformations	Grade 6 Geometry
Shape and Space	Transformations	NB.6.SS.8	Identify and plot points in the first quadrant of a Cartesian plane using whole number ordered pairs.	Ordered Pairs Coordinate Graphs Coordinate Graphs: 1st Quadrant	Grade 6 Position Grade 7 The Number Plane
Shape and Space	Transformations	NB.6.SS.9	Perform and describe single transformations of a 2-D shape in the first quadrant of a Cartesian plane (limited to whole-number vertices).	Transformations: Coordinate Plane	Grade 6 Position Grade 7 The Number Plane
Statistics and Probability	Data Analysis	NB.6.SP.1	Create, label, and interpret line graphs to draw conclusions.	Line Graphs: Interpretation	Grade 6 Position Grade 7 The Number Plane
Statistics and Probability	Data Analysis	NB.6.SP.2	Select, justify, and use appropriate methods of collecting data, including: questionnaires; experiments; databases; electronic media.	Data Types Data sampling	Grade 6 Data Representation
Statistics and Probability	Data Analysis	NB.6.SP.3	Graph collected data and analyze the graph to solve problems.	Pie Charts Circle Graphs Stem and Leaf Introduction Bar Graphs 1 Column Graphs Bar Graphs 2 Divided Bar Graphs Compound Bar Chart Stem-and-Leaf Plots	Grade 6 Data Representation
Statistics and Probability	Chance and Uncertainty	NB.6.SP.4	Demonstrate an understanding of probability by: identifying all possible outcomes of a probability experiment; differentiating between experimental and theoretical probability; determining the theoretical probability of outcomes in a probability experiment; determining the experimental probability of outcomes in a probability experiment; comparing experimental results with the theoretical probability for an experiment.	What are the Chances? Will it Happen? Probability Scale	Grade 6 Chance and Probability Grade 7 Chance

Mathletics

New Brunswick Outcomes
Alignment with Mathletics

New Brunswick Grade 7

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	Activities	eBooks
Number	Number	NB.7.N.1	Determine and explain why a number is divisible by 2, 3, 4, 5, 6, 8, 9, or 10, and why a number cannot be divided by 0.	Divisibility Tests Divisibility Tests (2, 5, 10) Divisibility Tests (3, 4, 9) Product of Prime Factors Factors Tests of Divisibility 1 Prime or Composite? Greatest Common Factor	Grade 7 Whole Numbers
Number	Number	NB.7.N.2	Demonstrate an understanding of the addition, subtraction, multiplication, and division of decimals (for more than 1-Digit divisors or 2-digit multipliers, the use of technology is expected) to solve problems.	Adding Decimals Add Decimals 2 Subtract Decimals 1 Decimal Complements Subtract Decimals 2 Multiply Decimals: 10, 100, 1000 Divide Decimals: 10, 100, 1000 Divide Decimal by Whole Number Multiply Decimals and Powers of 10 Missing Values: Decimals Adding and Subtracting Decimals Decimal by Whole Number Decimal by Decimal Divide Decimal by Decimal Divide by Powers of 10 Adding and Subtracting Decimals Multiply Decimals: Area Model Multiply Decimal by Decimal Subtracting Decimals	Grade 7 Decimals
Number	Number	NB.7.N.3	Solve problems involving percents from 1% to 100%.	Percentage Word Problems Percentage of a Quantity Percent Increase and Decrease Calculating Percentages Percent of a Number	Grade 7 Percentage Basics
Number	Number	NB.7.N.4	Demonstrate an understanding of the relationship between positive repeating decimals and positive fractions, and positive terminating decimals and positive fractions.	Fraction to Terminating Decimal Fractions to Decimals Fractions to Decimals 2 Recurring Decimals Decimals to Fractions 1 Decimals to Fractions 2 Recurring Decimals and Series Convert Decimals to Fractions 2	Grade 7 Percentage Basics

New Brunswick Grade 7

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	Activities	eBooks
Number	Number	NB.7.N.5	Demonstrate an understanding of adding and subtracting positive fractions and mixed numbers, with like and unlike denominators, concretely, pictorially, and symbolically (limited to positive sums and differences).	Add: Common Denominator Add Mixed Numbers: Same Sign Add Like Mixed Numbers Add Unlike Mixed Numbers Mixed to Improper Improper to Mixed Subtract: Common Denominator Subtract: No Common Denominator Subtract Unlike Mixed Numbers Simplifying Fractions Add: No Common Denominator Add Unlike Fractions Add subtract fractions 1 Subtract Like Mixed Numbers Subtract Unlike Fractions One take Fraction Subtract Mixed Numbers: Renaming	Grade 7 Fractions
Number	Number	NB.7.N.6	Demonstrate an understanding of addition and subtraction of integers, concretely, pictorially, and symbolically.	Integers: Add and Subtract More with Integers Add Integers Subtract Integers Negative or Positive? Integers: Subtraction	Grade 7 Directed Numbers
Number	Number	NB.7.N.7	Compare and order positive fractions, positive decimals (to thousandths), and whole numbers by using; benchmarks; place value; equivalent fractions and/or decimals.	Comparing Fractions 1 Comparing Fractions 1a Comparing Fractions 1b Comparing Fractions 2 Compare Fractions 2 Ordering Fractions 1 Integers on a Number Line Ordering Integers (Number Line) Comparing Integers Comparing Integers (<, =,>) Decimal Order Decimal Order 1 Decimal Order 2 Comparing Decimals Comparing Decimals 1 Comparing Decimals 2	Grade 7 Fractions Grade 7 Decimals

New Brunswick Grade 7

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	Activities	eBooks
Patterns and Relations	Patterns	NB.7.PR.1	Demonstrate an understanding of oral and written patterns and their equivalent linear relations.	Pattern Rules and Tables Find the Pattern Rule	Grade 8 Linear Relationships
Patterns and Relations	Patterns	NB.7.PR.2	Create a table of values from a linear relation, graph the table of values, and analyze the graph to draw conclusions and solve problems.	Pattern Rules and Tables Table of Values Find the Pattern Rule Graphing from a Table of Values Patterns, Rules and Equations Ordered Pairs Reading Values from a Line	Grade 7 Algebra Basics Grade 8 Linear Relationships
Patterns and Relations	Variables and Equations	NB.7.PR.3	Demonstrate an understanding of preservation of equality by: modelling preservation of equality, concretely, pictorially, and symbolically; applying preservation of equality to solve equations.	Solve Equations: Add, Subtract 1 Solve Equations: Multiply, Divide 1 Solve Proportions Equations to Solve Problems Solving Simple Equations	Grade 7 Algebra Basics Grade 8 Linear Relationships
Patterns and Relations	Variables and Equations	NB.7.PR.4	Explain the difference between an expression and an equation.	Write an Equation: Word Problems Writing Algebraic Expressions Writing Equations	Grade 7 Algebra Basics Grade 8 Linear Relationships
Patterns and Relations	Variables and Equations	NB.7.PR.5	Evaluate an expression given the value of the variable(s).	Simple Substitution 1	Grade 7 Algebra Basics
Patterns and Relations	Variables and Equations	NB.7.PR.6	Model and solve problems that can be represented by one-step linear equations of the form $x + a = b$, concretely, pictorially, and symbolically, where a and b are integers.	More Substitution in Formulae Solving More Equations Solve Equations: Add, Subtract 2 Solve Equations: Multiply, Divide 2	Grade 8 Equations
Patterns and Relations	Variables and Equations	NB.7.PR.7	Model and solve problems that can be represented by linear equations.	Equations: Variables, Both Sides Solve Multi-Step Equations Equations with Fractions Solve Two-Step Equations Missing Numbers: Variables Equations with Decimals Equations to Solve Problems Checking Solutions Identifying errors in applying the order of operations Find the Mistake	Grade 8 Equations

New Brunswick Grade 7

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	Activities	eBooks
Shape and Space	Measurement	NB.7.SS.1	Demonstrate an understanding of circles by: describing the relationships among radius, diameter, and circumference of circles; relating circumference to p; determining the sum of the central angle; constructing circles with a given radius or diameter; solving problems involving the radii, diameters and circumferences of circles.	Circle Terms Circumference: Circles Labelling Circles Identify Parts of Circles 1 Identify Parts of Circles 2	
Shape and Space	Measurement	NB.7.SS.2	Develop and apply a formula for determining the area of triangles, parallelograms and circles.	Area: Triangles Area: Right Angled Triangles Area: Quadrilaterals Area: Circles Area: Parallelograms	Grade 7 Area and Perimeter
Shape and Space	3-D objects and 2-D shapes	NB.7.SS.3	Perform geometric constructions, including perpendicular line segments, parallel line segments, perpendicular bisectors and angle bisectors.	Parallel Lines What Line Am I?	Grade 7 The Number Plane
Shape and Space	Transformations	NB.7.SS.4	Identify and plot points in the four quadrants of a Cartesian plane using integral ordered pairs.	Ordered Pairs	Grade 7 The Number Plane
Shape and Space	Transformations	NB.7.SS.5	Perform and describe transformations (translations, rotations or reflections) of a 2-D shape in all four quadrants of a Cartesian plane (limited to integral number vertices).	Transformations Rotations: Coordinate Plane Transformations: Coordinate Plane Flip, Slide, Turn Symmetry Symmetry or Not? Rotational Symmetry Vertical and horizontal shift	Grade 7 The Number Plane Grade 8 Straight Lines
Statistics and Probability	Data Analysis	NB.7.SP.1	Demonstrate an understanding of central tendency and range by determining the measures of central tendency (mean, median, mode) and range and determining the most appropriate measures of central tendency to report findings.	Mean Median Mode Mean from Frequency Table Median from Frequency Mode from Frequency Table Grouped Frequency	Grade 7 Data for Statistics

New Brunswick Outcomes
Alignment with Mathletics

Mathletics

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	▤ Activities	📖 eBooks
Statistics and Probability	Data Analysis	NB.7.SP.2	Determine the effect on the mean, median, and mode when an outlier is included in the data.	Under review	Grade 7 Data for Statistics
Statistics and Probability	Data Analysis	NB.7.SP.3	Construct, label, and interpret circle graphs to solve problems.	Creating a Sector Graph Sector Graph Calculations Sector Graph Angles Sector Graphs	Grade 6 Data Representation
Statistics and Probability	Chance and Uncertainty	NB.7.SP.4	Express probabilities as ratios, fractions, and percents.	Probability Scale Ratios Simple Probability Find the Probability	Grade 7 Chance
Statistics and Probability	Chance and Uncertainty	NB.7.SP.5	Identify the sample space (where the combined sample space has 36 or fewer elements) for a probability experiment involving two independent events.	Dice and Coins Two-way Table Probability Tree Diagrams Venn Diagrams	Grade 7 Chance
Statistics and Probability	Chance and Uncertainty	NB.7.SP.6	Conduct a probability experiment to compare the theoretical probability (determined using a tree diagram, table, or another graphic organizer) and experimental probability of two independent events.	Dice and Coins Two-way Table Probability Probability Tables Probability With Replacement Probability Without Replacement Complementary Events	Grade 7 Chance

Mathletics

New Brunswick Grade 8

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	☰ Activities	📖 eBooks
Number	Number	NB.8.N.1	Demonstrate an understanding of perfect squares and square roots, concretely, pictorially, and symbolically (limited to whole numbers).	Square Roots Equations with Square Roots Square and Cube Roots	Under review
Number	Number	NB.8.N.2	Determine the approximate square root of numbers that are not perfect squares (limited to whole numbers).	Estimating Square Roots Estimate Square Roots	Under review
Number	Number	NB.8.N.3	Demonstrate an understanding of percents greater than or equal to 0%.	Percentage of a Quantity Calculating Percentages Calculating Percentages 1 Percentage to Fraction Decimal to Percentage Percents and Decimals Percentage Word Problems Percentage Increase and Decrease Percentage of a Quantity Solve Percent Equations Percentage Composition Percentages of a quantity (>100% Percent of a Number (Mental) Quantities to Percentages (with units)	Grade 8 Percentage Calculations
Number	Number	NB.8.N.4	Demonstrate an understanding of ratio and rate.	Equivalent Ratios Dividing a Quantity in a Ratio Ratio Word Problems Solve Proportions Rate Word Problems Ratios Rates Rates Word Problems Rates Calculations Ratio and Proportion Simplify Ratios: 2 Whole Numbers Simplify Ratios: 3 Whole Numbers Simplify Ratios: Mixed Numbers	Grade 8 Rates and Ratios
Number	Number	NB.8.N.5	Solve problems that involve rates, ratios, and proportional reasoning.	Ratio Word Problems Rate Word Problems Rates Calculations	Grade 7 Fractions

New Brunswick Grade 8

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	Activities	eBooks
Number	Number	NB.8.N.6	Demonstrate an understanding of multiplying and dividing positive fractions and mixed numbers, concretely, pictorially, and symbolically.	Operations with Fractions Converting Mixed and Improper Model fractions to multiply Multiply Mixed Numbers Divide Fractions by Fractions 1 Divide Fractions by Fractions 2 Divide Mixed Numbers Fraction Word Problems Divide by a unit fraction Divide Fractions Visual Model Multiplying Fractions Multiply Two Fractions 1 Multiply Two Fractions 2	Grade 7 Fractions
Number	Number	NB.8.N.7	Demonstrate an understanding of multiplication and division of integers, concretely, pictorially, and symbolically.	Integers: Multiply and Divide Integers: Multiply and Divide 1 Multiplying and Dividing Integers Integers: Order of Operations (BEDMAS) More with Integers Order of Operations 1 (BEDMAS)	Grade 7 Whole Numbers
Patterns and Relations	Patterns	NB.8.PR.1	Graph and analyze two-variable linear relations.	Pattern Rules and Tables Find the Pattern Rule Find the Function Rule Ordered Pairs Table of Values Reading Values from a Line Graphing from a Table of Values 2 $y=ax$ Which Straight Line? Equation of a Line 2	Grade 8 Linear Relationships
Patterns and Relations	Variables and Equations	NB.8.PR.2	Model and solve problems using linear equations.	Equations to Solve Problems Solving More Equations Solve Equations: Add, Subtract 2 Solve Equations: Multiply, Divide 2 Equations with Fractions Equations with Grouping Symbols	Grade 8 Equations
Shape and Space	Measurement	NB.8.SS.1	Develop and apply the Pythagorean theorem to solve problems.	Pythagoras' Theorem Pythagorean Triads Hypotenuse of a Right Triangle Find Slant Height	Grade 8 Pythagoras' Theorem
Shape and Space	Measurement	NB.8.SS.2	Draw and construct nets for 3-D objects.	Nets	Grade 9 Measuring Solids

New Brunswick Grade 8

Strand	General Curriculum Outcome	Specific Curriculum Outcome	Outcome Description	▤ Activities	📖 eBooks
Shape and Space	Measurement	NB.8.SS.3	Determine the surface area of right rectangular prisms, right triangular prisms and right cylinders to solve problems.	Surface Area: Cylinders Surface Area: Triangular Prisms Surface Area: Rectangular Prisms	Grade 9 Measuring Solids
Shape and Space	Measurement	NB.8.SS.4	Develop and apply formulas for determining the volume of right prisms and right cylinders.	Volume: Cylinders Volume: Prisms Volume: Rectangular Prisms 2 Volume: Triangular Prisms	Grade 9 Measuring Solids
Shape and Space	3-D Objects and 2-D Shapes	NB.8.SS.5	Draw and interpret top, front, and side views of 3-D objects composed of right rectangular prisms.	Under Review	Grade 8 Constructions
Shape and Space	Transformations	NB.8.SS.6	Demonstrate an understanding of tessellation by explaining the properties of shapes that make tessellating possible, creating tessellations, identifying tessellations in the environment.	Under Review	Grade 6 Geometry
Statistics and Probability	Data Analysis	NB.8.SP.1	Critique ways in which data are presented.	Frequency Histograms Histograms Histogram or Polygon? Cumulative Frequency Histogram Dot Plots Line Plots Pie Charts Divided Bar Graphs Step Graphs	Grade 6 Data Representation Grade 9 Data
Statistics and Probability	Chance and Uncertainty	NB.8.SP.2	Solve problems involving the probability of independent events.	Dice and Coins Probability Scale Simple Probability Two-way Table Probability Probability With Replacement Probability Without Replacement Probability Without Replacement 1 Simple Probability 1 Probability Tables Probability with Replacement 1 Find the Probability	Grade 7 Chance Grade 8 Probability

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