

# Mathletics

## British Columbia Curriculum

### Activities (Courses) and Skill Quests



**Grades K-2**

July, 2025

**Mathletics**

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# Kindergarten

## 1 Number

### 1.1 Represent and decompose

K.N.Number to 10 Number concepts to 10	
Course Topics	Activities
Numbers to 20	How Many?
	Order Numbers to 10
	Ordinal Numbers
	Count to 5
	Concept of Zero
	Dot Display
	More, Less or the Same to 10

## 2 Computational Fluency

### 2.1 Fluency with numbers

K.F.Make 5 Ways to make 5	
Course Topics	Activities
Teacher directed	

K.F.Decompose decomposition of numbers to 10	
Course Topics	Activities
Teacher directed	

K.F.Change to 10 description	
Course Topics	Activities
Teacher directed	

K.F.Equality and inequality Equality as a balance and inequality as an imbalance	
Course Topics	Activities
Change and equality	Balancing Act
	Balancing Objects

## 3 Patterning

### 3.1 Patterns

K.P.Repeating pattern	
Repeating patterns with two or three elements	
Course Topics	Activities
Teacher directed	

## 4 Geometry and measurement

### 4.1 Attributes

<b>K.A.Measurement</b> Direct comparative measurement (e.g., linear, mass, capacity)	
<b>Course Topics</b>	<b>Activities</b>
Patterns	Hot or Cold?
Measuring	How Full?
	Everyday Mass
	Filling Fast!
	Everyday Length
	Comparing Volume
	Which Holds More?

<b>K.A.2D and 3D</b> Single attributes of 2D shapes and 3D objects	
<b>Course Topics</b>	<b>Activities</b>
Objects and shapes	Where is it?
	Following Directions
	Same and Different

## 5 Data and probability

### 5.1 Familiar events

<b>K.D.Graphs</b> Concrete or pictorial graphs as a visual tool	
Course Topics	Activities
Graphs	Read Graphs

<b>K.D.Likelihood</b> Likelihood of familiar life events	
Course Topics	Activities
Chance	Will it Happen?
	Most Likely and Least Likely

<b>K.A.Financial literacy</b> Financial literacy — attributes of coins, and financial role-play	
Course Topics	Activities
Teacher directed	

# Grade 1

## 1 Number

### 1.1 Number to 20

<b>1.N.Number to 20</b> Number concepts to 20	
Course Topics	Activities
Numbers to 20	Order Numbers to 20
	Making Teen Numbers
	Matching Numbers to 20
	Matching Numbers to 10
	Before, After and Between to 20
	How Many Dots?
	More, Less or the Same to 20
	Counting Up to 20
	Counting Back Within 20
Topics	Skill Quests
Number concepts to 20	Skip counting by 2s to 20
	Skip counting by 5s to 20
	Sequencing numbers to 20
	Comparing & ordering numbers to 20
	Creating collections to 20
	Connecting number names to 20
Place value of numbers to 20	Understanding place value of 10s & 1s to 20

<b>1.F.Make 10</b> Ways to make 10	
Course Topics	Activities
Adding	Adding to Make 5 and 10
Topics	Skill Quests
Ways to make 10	Ways to make 10



## 2 Computational Fluency

### 2.1 Add and subtract to 10

1.F.Add subtract to 20 Addition and subtraction to 20 (understanding of operation and process)	
Course Topics	Activities
Adding	Adding to Ten
	Additive Addition
	Commutative Property of Addition
	Adding In Any Order
	Model Addition
	Add 3 Single Digit Numbers
	Adding to 5
	Add 3 Numbers Using Bonds to 10
	Doubles and Near Doubles
Subtracting	Subtracting from Ten
	Subtracting from 20
	Simple Subtraction
	Model Subtraction
	Subtracting From 5
Adding and subtracting	All about Ten
	All about Twenty
	Problems: Addition and Subtraction
	Fact Families: Add and Subtract
	Related Facts 1
	Add and Subtract Using Graphs
	Adding to 10 Word Problems
	Add and Subtract Problems
Topics	Skill Quests
Addition & subtraction within 10	Adding & subtracting within 10
Addition & subtraction to 20	Adding single numbers
	Adding within 20
	Subtracting within 20
	Adding & subtracting within 20
	Recalling doubles to 20
	Adding doubles & near doubles
	Introducing commutative property of addition
	Relationship of addition & subtraction
	Missing numbers in calculations
	Creating word problems for addition & subtraction
	Using a bar model
	Adding zero to a number
	Subtracting zero from a number

<b>1.F.Change to 20</b> Change in quantity to 20, concretely and verbally	
<b>Course Topics</b>	<b>Activities</b>
Teacher directed	
<b>Topics</b>	<b>Skill Quests</b>
Change in quantity to 20	Exploring change in quantity to 20

<b>1.F.Equality and inequality</b> Meaning of equality and inequality	
<b>Course Topics</b>	<b>Activities</b>
Change and equality	Composing Numbers to 10
	Composing Numbers to 20
<b>Topics</b>	<b>Skill Quests</b>
Equality & inequality	Equality & inequality

## 3 Patterning

### 3.1 Patterns

<b>1.P.Patterns</b>	
Repeating patterns with multiple elements and attributes	
Course Topics	Activities
Patterns	Simple Patterns
	Pattern Error
	Missing it!
	Colour Patterns
	Complete the Pattern
Topics	Skill Quests
Repeating patterns	Identifying sorting rules
	Recognizing repeating patterns
	Creating repeating patterns
	Predicting a pattern
	Copying a repeating pattern
	Translating patterns from one to another

## 4 Geometry and measurement

### 4.1 Geometry and measurement

<b>1.A.Measurement</b>	
Direct measurement with non-standard units (non-uniform and uniform)	
Course Topics	Activities
Measuring	Sort It
	Comparing Length
	Compare Length
	Measuring Length with Blocks
Topics	Skill Quests
Measuring with non-standard units	Non-uniform length
	Non-uniform area/tiling

<b>1.A.2D and 3D</b>	
Comparison of 2D shapes and 3D objects	
Course Topics	Activities
Objects and shapes	Left or Right?
	Collect Simple Shapes
	Match the Solid 1
Topics	Skill Quests
2D shapes	Naming 2D shapes
	Sorting 2D shapes (1 attribute)
	Comparing 2D shapes
3D objects	Sorting 3D objects (1 attribute)
	Replicating & building 3D objects
	Finding shapes in the environment
Position & movement	Describing position & movement

## 5 Data and probability

### 5.1 Data and probability

<b>1.D.Graphs</b> Concrete graphs, using one-to-one correspondence	
Course Topics	Activities
Graphs	Comparing Groups of Objects
	Picture Graphs: More or Less
Topics	Skill Quests
Using graphs	Graphs with one-to-one correspondence

<b>1.D.Likelihood</b> Likelihood of familiar life events, using comparative language	
Course Topics	Activities
Chance	Chance Gauge
Topics	Skill Quests
Language of probability	Using the language of probability

<b>1.A.Financial literacy</b> Financial literacy — values of coins, and monetary exchanges	
Course Topics	Activities
Teacher directed	
Topics	Skill Quests
Financial literacy	Using money

# Grade 2

## 1 Number

### 1.1 Number to 100

<b>2.N.Number to 100</b> Number concepts to 100	
<b>Course Topics</b>	<b>Activities</b>
Numbers - Counting	Arranging Numbers
	1 to 30
	Reading Numbers to 30
	Counting Forward
	Going Up
	Number Line Order
	Going Down
	1st to 31st
	Number Lines
	Before, After & Between to 100
	Count by 2s, 5s and 10s
	Odd or Even
Numbers - Place value	Making Numbers Count
	Making Big Numbers Count
	Place Value 1
	1 More, 10 Less
	1 More, 2 Less
	Repartition Two-digit Numbers
	Greater or Less to 100
	Partition Puzzles 1
Patterns with numbers	Counting by Twos
	Counting by Fives
	Counting by Tens
	Count by Tens
	Count by Twos
	Count by Fives
	Counting on a 100 grid
<b>Topics</b>	<b>Skill Quests</b>
Number concepts to 100	Skip counting by 2s to 100
	Skip counting by 5s to 100
	Skip counting by 10s to 100
	Skip counting by 2s, 5s & 10s to 100
	Sequencing numbers to 100
	Comparing & ordering numbers to 100
	Counting to 100
	Using words & numbers for 2-digit numbers
	Investigating even & odd numbers
Place value of numbers to 100	Using place value: 10s and 1s
	Non-standard place value

<b>2.N.Benchmarks</b>	
Benchmarks of 25, 50, and 100 and personal referents	
<b>Course Topics</b>	<b>Activities</b>
Benchmarks and equality	Complements to 50 and 100
	Complements to 10, 20, 50
<b>Topics</b>	<b>Skill Quests</b>
Teacher directed	

## 2 Computational fluency

### 2.1 Add and subtract to 100

2.F.Add and subtract facts	
Addition and subtraction facts to 20 (introduction of computational strategies)	
Course Topics	Activities
Adding and subtracting to 20	All about Ten
	All about Twenty
	Nearest Ten?
	Problems: Addition and Subtraction
	Fact Families: Add and Subtract
	Related Facts 1
	Addition Facts
	Add 3 Numbers Using Bonds to 10
	Doubles and Halves to 20
	Doubles and Halves to 10
Topics	Skill Quests
Addition & subtraction facts to 20	Using doubles & near doubles to 20
	Solving number problems using near doubles
	Adding to 20
	Subtracting to 20
	Adding & subtracting to 20
	Using the commutative property of addition
	Counting on by bridging to 10
	Creating word problems



<b>2.F.Add subtract to 100</b> Addition and subtraction to 100	
<b>Course Topics</b>	<b>Activities</b>
Adding and subtracting to 100	Mental Addition
	Mental Subtraction
	Bar Model Problems 1
	Bar Model Problems 2
	Adding to 2-digit numbers
	Subtract Tens
	Repartition to Subtract
	Add 3 Numbers: Bonds to Multiples of 10
<b>Topics</b>	<b>Skill Quests</b>
Addition within 100	Adding 2-digit & 1-digit numbers using place value
	Adding by bridging to 10 with 2- & 1-digit numbers
	Adding tens to a 2-digit number using models
	Adding two 2-digit numbers using place value
	Adding two 2-digit numbers using a number line
	Adding by compensating
	Using number bonds to 100
Subtraction within 100	Subtracting by bridging to 10
	Subtracting 2- & 1-digit numbers using place value
	Subtracting using mixed strategies
	Subtracting tens from a 2-digit number
	Subtracting two 2-digit numbers using place value
	Subtracting by compensating
Addition & subtraction within 100	Adding up to find the difference
	Solving add/sub problems with place value
	Adding/subtracting using mixed strategies
	Add/subtract two 2-digit numbers using place value
	Using the relationship of addition & subtraction
	Solving addition & subtraction word problems
	Writing number sentences to solve word problems
	Estimating sums & differences

<b>2.F.Change in quantity</b> Change in quantity, using pictorial and symbolic representation	
<b>Course Topics</b>	<b>Activities</b>
Teacher directed	
<b>Topics</b>	<b>Skill Quests</b>
Explore change in quantity	Exploring change in quantity

2.F.Equality and inequality	
Symbolic representation of equality and inequality	
Course Topics	Activities
Benchmarks and equality	Composing Numbers to 10
	Composing Numbers to 20
Topics	Skill Quests
Equality & inequality	Equality in number sentences to 20 using models
	Recognizing equality in number sentences to 20
	Recognizing equality in number sentences to 50
	Using the inequality symbol
	Equality & inequality in number sentences to 100
	Writing equivalent number sentences

## 3 Patterning

### 3.1 Patterns

<b>2.P.Patterns</b> Repeating and increasing patterns	
<b>Course Topics</b>	<b>Activities</b>
Patterns with numbers	Counting by Twos
	Counting by Fives
	Counting by Tens
	Count by Tens
	Count by Twos
	Count by Fives
	Counting on a 100 grid
Patterns with shapes and objects	Simple Patterns
	Pattern Error
	Missing it!
	Colour Patterns
	Complete the Pattern
<b>Topics</b>	<b>Skill Quests</b>
Repeating patterns	Identifying repeating patterns
	Extending repeating patterns
	Creating repeating patterns
	Identifying errors in repeating patterns
Repeating number patterns	Repeating numerical patterns
	Identifying & describing number patterns to 100
	Relating repeating patterns to number patterns
Repeating and increasing patterns	Increasing & growing patterns

## 4 Geometry and measurement

### 4.1 Geometry and measurement

<b>2.A.Measurement</b>	
Direct linear measurement, introducing standard metric units	
Course Topics	Activities
Measuring length	How Long is That?
	Ordering Lengths (cm)
Topics	Skill Quests
Measure length	Measuring in centimetres
	Estimating length
	Selecting appropriate units of measure (m & cm)

<b>2.A.2D and 3D</b>	
Multiple attributes of 2D shapes and 3D objects	
Course Topics	Activities
Objects and shapes	Match the Object
	Collect the Polygons
	Relate Shapes and Solids
	Count Sides and Corners
Topics	Skill Quests
2D shapes	Sorting 2D shapes
	Comparing 2D shape
3D objects	Sorting 3D objects
	2D shapes as part of 3D objects

<b>2.G.Graph</b>	
Pictorial representation of concrete graphs, using one-to-one correspondence	
Course Topics	Activities
Graphs	Comparing Groups of Objects
	Tallies
	Picture Graphs: single-unit scale
	Picture Graphs: More or Less
Topics	Skill Quests
Explore graphs	Pictographs
	Tally charts
	Interpreting & creating basic data displays

## 5 Data and probability

### 5.1 Data and probability

<b>2.G.Likelihood</b>	
Likelihood of familiar life events, using comparative language	
Course Topics	Activities
Chance	Chance Gauge
Topics	Skill Quests
Comparative language	Using possible & impossible
	Using likely & unlikely
	Using certain & uncertain
	Using comparative language

<b>2.A.Financial literacy</b>	
Financial literacy – coin combinations to 100 cents, and spending and saving	
Course Topics	Activities
Money	Skip Counting with Coins
Topics	Skill Quests
Financial literacy	Using coin combinations to 100¢



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