Grade 2

Mathematics: *A Pathway to Proficiency*

BRITISH COLUMBIA | Ministry of Education and Child Care

What is my child learning?

The BC Curriculum states that students are expected to be able to know and do the following:

- number concepts to 100
- benchmarks of 25, 50, and 100 and personal referents
- addition and subtraction facts to 20 (introduction of computational strategies)
- addition and subtraction to 100
- repeating and increasing patterns
- change in quantity, using pictorial and symbolic representation
- symbolic representation of equality and inequality
- direct linear measurement, introducing standard metric units
- multiple attributes of 2D shapes and 3D objects
- pictorial representation of concrete graphs, using one-to-one correspondence
- likelihood of familiar life events, using comparative language
- financial literacy — coin combinations to 100 cents, and spending and saving
- reasoning and analyzing
- understanding and solving
- communicating and representing
- connecting and reflecting

What foundational skills will my child develop this year?

- **Number Sense**
  - **Whole number concepts:** skip-counting and ordering numbers up to 100, showing numbers in different forms like on a hundred chart, understanding place value
- **Computational Fluency (Operations)**
  - **Knowledge and fluency of math facts:** using strategies like doubles to develop math facts to 20
  - **Understanding of operations:** problem solving with numbers up to 100 using tools like a number line or hundred chart
- **Patterning and Algebraic Thinking**
  - **Patterning:** exploring, describing, and making complex patterns
  - **Algebraic thinking:** showing how groups of objects can be equal or unequal like 10 dimes = 20 nickels, 14 + 6 > 15
- **Geometry and Measurement (Spatial Sense)**
  - **2D shapes and 3D objects:** describing features of 2D shapes and 3D objects using mathematical language
  - **Measurement:** using metric measuring tools like rulers to measure length, width and height
- **Data and Probability (Data Literacy)**
  - **Understanding, analyzing, and communicating about data:** recording, showing, and interpreting data on a graph or chart
  - **Probability:** describing the likelihood of a familiar event
- **Financial Literacy:**
  - **Currency:** counting the total value of a mixed set of Canadian coins, solving addition and subtraction problems using cents
  - **Financial planning and decision making:** developing and practicing financial understanding. This skill also relates to Number Sense and Computational Fluency

What will Proficient learning look like for my child by the end of the year?

On your child's report card, Proficient means your child has a complete understanding of key skills. When they are Proficient they should:

- Compare and order numbers up to 100 and skip count by 2, 5, and 10
- Use objects like base-10 blocks or symbols like expanded form to show how they understand place value concepts
- Use mental math strategies like doubles, making 10, and counting on to become fluent in math facts up to 20
- Show addition/subtraction for numbers up to 100 using visuals like a number line, 100 chart, or an equation
- Create patterns in multiple forms like with natural objects, in music or in movement
- Identify, describe, and create 2D shapes and 3D objects
- Use metric units to measure length
- Ask a question, record data, and create a graph. Interpret others' graphs
- Describe the likelihood of an event and explain their thinking
- Use various Canadian coins to create 100 cents
- Explore financial concepts like roles, responsibilities, jobs, spending, and saving
- Problem solve with numbers, measurements, or costs up to 100, showing their process with objects or drawings
  - Understand the situation (i.e., how many baseball diamonds could fit in our school yard? Rugby fields?)
  - Solve a problem using objects or pictures to represent quantities
  - Compare their problem-solving method and answer with others
  - Show how they solved the problem and say why they did it that way
- Other skills as outlined in the BC Curriculum