

Grade 3 Mathematics New Curriculum Guide

<https://curriculum.learnalberta.ca/curriculum/en/c/mat3>

Organizing Idea: Number - Place Value

Learning Outcome: Students interpret place value within 100 000.

Learning Highlights:

- Understand and identify the place value of each digit in a number.
- Write numbers using words and numerals.
- Compare, order and round numbers.
- Identify the value of a collection of coins and/or bills in cents and in dollars.
- Recognize French and English ways of representing dollars and cents.

Organizing Idea: Number - Addition & Subtraction

Learning Outcome: Students apply strategies for addition and subtraction within 1000.

Learning Highlights:

- Add and subtract 2-digit numbers and 3-digit numbers and solve problems using addition and subtraction.
- Understand that different addition and subtraction strategies are used depending on the numbers involved.
- Use standard algorithms to add and subtract.
- Estimate sums and differences.

Organizing Idea: Number - Multiplication & Division

Learning Outcome: Students analyze and apply strategies for multiplication and division within 100.

Learning Highlights:

- Recall multiplication number facts (up to 10x10) and related division facts.
- Solve problems using multiplication and division.

Organizing Idea: Number - Fractions

Learning Outcome: Students interpret fractions in relation to one whole.

Learning Highlights:

- Model fractions in a variety of ways (limited to denominators of 12 or less).
- Name fractions and identify numerators and denominators.
- Compare fractions with different numerators and the same denominator.
- Compare fractions with the same numerator and different denominators.
- Compare fractions to benchmarks of 0, $\frac{1}{2}$ and 1.
- Identify where fractions less than 1 fit on a number line.

Organizing Idea: Algebra

Learning Outcome: Students illustrate equality with equations.

Learning Highlights:

- Understand and represent equality in an equation.
- Work with equations that have an unknown number and solve for the unknown number.

Organizing Idea: Geometry**Learning Outcome:** Students relate geometric properties to shape.**Learning Highlights:**

- Investigate regular and irregular polygons.
- Sort polygons based on the positions of the sides and the size of the angles of the vertices (corners).
- Examine how a polygon's properties do not change even when the polygon goes through a translation (slide), rotation (turn), or reflection (flip).

Organizing Idea: Measurement**Learning Outcome:** Students determine length using standard units.**Learning Highlights:**

- Understand the relationship between millimetres, centimetres, and metres.
- Understand the relationship between inches, feet, and yards.
- Estimate and measure lengths in metric and imperial units.
- Determine the perimeter of a polygon.

Organizing Idea: Measurement**Learning Outcome:** Students interpret angles.**Learning Highlights:**

- Recognize angles in daily life.
- Compare angles through different methods.

Organizing Idea: Patterns**Learning Outcome:** Students analyze patterns in numerical sequences.**Learning Highlights:**

- Recognize familiar number sequences of numbers (a list of terms arranged in a certain order) including the sequence of even or odd numbers.
- Know the difference between sequences that end (finite) and sequences that never end (infinite).
- Recognize skip-counting sequences and determine missing numbers.

Organizing Idea: Time**Learning Outcome:** Students tell time using clocks.**Learning Highlights:**

- Investigate the relationship between seconds, minutes, and hours using an analog clock.
- Read time to the minute. Understand a.m. and p.m.
- Tell time using a 24-hour clock.

Organizing Idea: Statistics**Learning Outcome:** Students interpret and explain representations of data.**Learning Highlights:**

- Create questions in order to collect data.
- Collect and interpret data using a variety of identified graphs.
- Examine First Nations, Métis, or Inuit representations of data.