

Grade 8 Math

At the Grade 8 level, students use seven critical processes to build their understanding of math and support lifelong learning:

- **Communication** - showing learning orally, through diagrams, and in writing.
- **Connections** - making connections to everyday situations, other subject areas, and mathematics concepts.
- **Estimation/Mental Mathematics** - developing understanding of numbers and quantities.
- **Problem Solving** - investigating problems, including those with multiple solutions.
- **Reasoning** - justifying thinking.
- **Technology** - using technology to enhance problem solving and encourage discovery of number patterns.
- **Visualization** - drawing on mental images to clarify concepts.

Below are the 4 strands of the curriculum your child will be working in and the main topics that will be covered.

- **Number**
 - Demonstrates number sense for perfect squares, square roots, percents, rate and ratio, fractions, integers, and rational numbers.
 - Shows understanding of the multiplication and division of fractions and integers in a variety of ways.
 - Uses number sense to solve problems using a variety of strategies.
- **Patterns and Relations**
 - Models, solves, graphs, and understands the meaning of equations.
- **Shape and Space**
 - Solves problems involving surface area, volume, and the Pythagorean theorem.
 - Draws and interprets nets and views of 3-D objects.
 - Creates, identifies, and explains the properties of tessellation.
- **Statistics and Probability**
 - Analyses advantages and disadvantages of data presented in a variety of ways.
 - Solves problems involving the probability of independent events.