**Grade 9 Mathematics**

## Course Description

Grade 9 Mathematics is a demanding course. It is designed to prepare students for the university entrance courses of grade 10 (Pre-Calculus Mathematics and Applied Mathematics). Students wishing to take these courses must meet certain grade requirements. This course will stress mathematical reasoning, number sense, and problem solving skills. As such, there will be times during the year when calculators will not be permitted.

The grade Nine mathematics curriculum is intended to increase the students **problem solving skills**, build upon their **mathematical confidence** and allow them to **appreciate and value math** within their worlds. It is my endeavor to incorporate problem solving in every unit throughout the year. Numbers and the ability to use numbers are not only important to your everyday life but they are also important to God.

Math demonstrates several very important attributes about God:

* He is Sovereign
* He is unchanging (the correct answers never change in Math)
* His universality (God – like Math does not change from place to place or person to person)
* He is orderly (Math follows a set of procedures that lead us to the right answer)

### Text Book

*Math Makes Sense*, Pearson 2009

### j0232723Materials

### Coil Scribbler(s) for workbook assignments (Graphing paper)

* 1 Duotang or binder for notes and handouts
* Scientific Calculator
* Several Pencils
* Geometry Set
* Eraser
* Mathletics Name and Password

# http://education.alberta.ca/media/6509838/pdfimage_300x290.jpg

**Textbook**

**Mathletics Mental Math**

**Classroom Work**

# Year at a Glance

Topics Covered:

Term 1 September – January (40%):

Powers and Exponent Laws

Square Roots and Surface Area

Rational Numbers

Linear Relations

Term 2 January – June (40%):

Polynomials

Linear Equations and Inequalities

Similarity and Transformations

Probability and Statistics

Circle Geometry

Final Exam June (20%)

**Evaluation Breakdown:**

Knowledge and Understanding 50%

* Creativity and Innovation
* Personal Management
* Digital Literacy

Application 30%

* Critical Thinking and Problem Solving
* Collaboration and Leadership

Communication 10%

Inquiry/Thinking 10%

### Student Expectations

The students are expected to:

* come prepared to class,
* attend all classes, and
* participate in the program to the best of their ability.

Please feel free to contact us at school or by email [afast@mbci.mb.ca](mailto:afast@mbci.mb.ca)

**Lesson of the Eagle:**

* while eagles soar almost motionless, they are naked to the eyes of its prey
* wing span over eight feet, weigh up to 15 lbs, live up to 40 years
* Indigenous to North America but once were predominant in Israel
* Most attentive parents of all birds species
* Considered the Greatest teachers of their young compared to all bird species
* Monogamous



**Biblical Lessons from the Eagle:**

* Catch the Wind.
* Soar to new heights.
* You are not Alone.
* Be Patient.

*“But those who hope in the LORD will renew their strength. They will soar on wings like eagles; they will run and not grow weary, they will walk and not be faint.”* Isaiah 40:31