

Grade 9 Mathematics: Course Outline

Grade 9 Mathematics (10F) is a foundation course to prepare you for multiple possible pathways in Grades 10 to 12 (Essentials, Applied, or Pre-Calculus).

There are four major learning outcomes in Grade 9 Math called strands. These strands include Number; Patterns and Relations; Shape and Space; Statistics and Probability.



These topics will be covered over several units including:

- ✓ Rational Numbers
- ✓ Powers and Exponents
- ✓ Polynomials
- ✓ Multiplying and Dividing Polynomials
- ✓ Linear Relations
- ✓ Solving Linear Equations
- ✓ Linear Inequalities
- ✓ Symmetry and Surface Area
- ✓ Scale Factors
- ✓ Circle Geometry
- ✓ Data Analysis

Types of Assessment/Assignments:

- ✓ Mental Math
- ✓ In-class Assignments
- ✓ Homework Assignments Presentations
- ✓ Projects
- ✓ Entrance/Exit Slips
- ✓ Quizzes
- ✓ Tests
- ✓ Exam

Evaluation:

Mental Math (usually every class)	10%
Knowledge and Understanding (quizzes, tests, in-class assignments)	55%
Problem Solving (quizzes, tests, in-class assignments)	15%
Exam(s)	20%



Daily Supplies:

- ✓ Three-ring binder with loose-leaf paper. Scribblers make it difficult to hand in assignments.
- ✓ Pencil: Math is much easier to read in pencil! Please come with one.
- ✓ Pen (blue or black), highlighters, and/or coloured markers/pencil crayons. You may want to highlight and underline specific words and concepts.
- ✓ A calculator (make sure it is a scientific calculator, preferably with a fraction option. You should not have to spend more than \$20 for a suitable calculator)



Good to have...
but not ALL
THE TIME!

Textbook:

We will be using a MathLinks 9 (McGraw-Hill Ryerson) in this course. Please respect the textbook that you've been given. Refrain from writing in it, bending pages, or using it as a folder.

Expectations:

- ✓ Be on time! Arriving late disrupts the class and your learning.
- ✓ You are expected to manage your time in order to meet deadlines. Use an agenda if necessary.
- ✓ If you miss a class, arrange for your homework to be picked up, or find out what you missed before the following class. It is YOUR responsibility to do this!
- ✓ All work should be neat and legible.
- ✓ Missing a test or presentation without a note from parents or guardians will result in consequences. If you miss a test day, the test must be written the following Tuesday or Thursday. Be prepared for this!
- ✓ Be respectful.



Grade 9 is such an important year- Do not get behind. If you need help, do not be afraid to ask! I am here to teach and guide you through this year. Parents and/or guardians, please feel free to contact me with any questions or concerns.

I look forward to a great year!

- Mr. R Comeault (rcomeault@isd21.mb.ca)