



**Matthew Halton High School  
Math 9  
Course Outline**

**Instructor: T. Schuler**

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**General Information**

- Instructor – T Schuler
  - [schulert@lrsd.ab.ca](mailto:schulert@lrsd.ab.ca)
- Room 205

**Course Content**

The learner outcomes for Math 9 will be covered by studying four main strands.

- Number
  - Powers, Exponent Laws, Rational Numbers, Order of Operations, Square Roots of Perfect Squares, Approximating Square Roots
- Patterns and Relations
  - Patterns and Equations, Graphing Linear Relations, Solving Equations, Inequalities, Polynomials, Adding and Subtracting Polynomials, Multiplying and Dividing Polynomials
- Shape and Space
  - Circle Properties, Surface Area, Similarity, Scale Diagrams, Symmetry
- Statistics and Probability
  - Data Collection, Samples, Data Display and Analysis, Probability

**Evaluation**

Final grades will be calculated as follows:

Strand Weights

Number <ul style="list-style-type: none"><li>• Square Roots (6%) (Unit 1)</li><li>• Powers and Exponent Laws (12%) (Unit 2)</li><li>• Rational Numbers and Order of Operations (12%) (Unit 3)</li></ul>	30%
Patterns and Relations <ul style="list-style-type: none"><li>• Linear Relations (12%) (Unit 4)</li><li>• Polynomials (12%) (Unit 5)</li><li>• Equations and Inequalities (12%) (Unit 6)</li></ul>	36%

Shape and Space <ul style="list-style-type: none"> <li>• Similarity, Scale, and Symmetry (12%) (Unit 7)</li> <li>• Surface Area &amp; Circle Properties (12%) (Unit 8)</li> </ul>	24%
Statistics and Probability (Unit 9)	10%

- The course is divided into the 4 major stands of math 9 and further subdivided into 9 units.
- A unit test will be written at the end of each unit.
- Smaller quizzes will be written throughout the unit to help track student progress.
- A comprehensive strand exams will be written at the completion of each section.
- A “practice” class final will be written at the end of the course to help prepare for the Provincial Achievement Exam. (weight 5%)
- The Provincial Achievement Exam will be counted as the final exam for the class and will be weighted at 20%.

## ***Resources***

- Textbook: Math Makes Sense 9 (Pearson)

## ***Required Supplies***

- 3 Ring Binder with loose leaf for notes and daily practice.
- Scientific Calculator \*\*\* (graphing calculators are not allowed in Math 9)
- Pencil(s)
- Ruler and Protractor

## ***Expectations***

- Students are required to have a scientific calculator to use throughout the course. **The recommended calculator is the TI-30XIIS or TI-30XS** both cost approx.\$20. Students are **NOT** permitted to use cell phones, iPods, or other personal devices as calculators.
- Math calculations are expected to be performed in PENCIL. Tests must be completed in pencil.
- Students need to complete daily assignments in order to be successful. Please seek my help if you are falling behind. I am more than happy to assist.