Welcome to Grade 9! In this course you will use a problem-solving approach to complete calculations and solve word problems in everyday home, workplace and community contexts.

Course Content
The learner outcomes for Math 9 KE will be covered by studying four main strands. Weightings and a tentative timeline are included. Please note the timeline is approximate and therefore, subject to change.

- **Number (34%)** September 1 - November 10
  - Demonstrate a number sense for whole numbers, common fractions, mixed numbers, decimals, percents and ratios; explore integers; and apply arithmetic operations to solve problems in everyday contexts.
- **Statistics and Probability (14%)** November 16 - December 18
  - Develop and implement a plan for collecting, displaying and examining data and information used in everyday applications.
- **Patterns and Relations (12%)** January 4 - January 28
  - Use relationships to summarize, generalize and extend patterns to understand the environment and solve everyday problems.
  - Use informal and concrete representations of equality and operations to solve problems in everyday contexts.
- **Shape and Space (40%)** February 1 - June 25 (Note: class reduced to every other day for semester 2)
  - Use measurement concepts, appropriate tools and results of measurement to solve problems in everyday contexts, including: • perimeter • area • surface area • mass (weight) • volume (capacity) • angle measurements.
  - Use visualization and symmetry to extend their awareness of objects and shapes and solve problems that involve classification and sketching.
  - Create and examine patterns and designs that incorporate symmetry, tessellations, translations and reflections.

Course Evaluation
Final Grades will be calculated as follows:

Class Work (80%)	Assignments/Projects	40%
	Concept Quizzes	40%
Cumulative Review Assessments		20%

- Strand weightings indicated above are a percentage of the class work evaluation. I.e. The *Number* strand is worth 34% of 80 (So 27.2% of your final grade).
- There will be small quizzes following major concepts in each strand.
- Unit assignments/projects will be included throughout the strands.
- Cumulative review assessments will occur once a week (tentatively) and will assess a variety of concepts previously covered in this course

Required Materials

You are expected to bring the following to each class:
- 3-ring binder with loose-leaf paper
- Calculator (any calculator is fine, it doesn't need to be 'scientific')
- Pencil(s)
- Ruler and Protractor

Student Expectations
- Respect yourself, others, and the classroom.
- Please seek my help if you have questions or need some catching up. I am more than happy to assist.
- Use of personal electronic devices such as cell phones, ipods, tablets, gaming devices, etc. is not permitted in class without prior permission.