



I. Key Message/Expectations

Attendance is critical to this course. If you miss or are going to miss class, you are responsible to gather what you miss from your peers. If you miss an activity come see me and we will schedule a time when you can make it up. If you miss a test or exam you will write it next class.

This classroom is a safe learning environment. As such I expect everyone to treat each other with respect and kindness.

I believe that all of my students are capable of success in this course. I want you all to succeed so do not be afraid to ask for help, either from myself or your peers.

If you would like extra help, I will be available during lunch and after school.

II. Course Overview

Math 20-3 is a practical course that is designed for students who are on a path to an apprenticeship or are heading into the workforce. This course requires excellent attendance, attitude, and effort in all aspects.

III. Scope and Sequence

There will be five units in this course:

1. Unit 1 - Algebra

- a. Solving problems related to slope and rate of change as $\frac{\text{Rise}}{\text{Run}}$
- b. Solve problems by applying proportional reasoning and unit analysis

2. Unit 2 - Geometry

- a. Solve problems that involve two and three right triangles
- b. Solve problems that involve scale
- c. Model and draw 3D objects and their views

- d. Draw and describe exploded views, component parts and scale diagrams of simple 3D objects

3. Unit 3 - Numbers

- a. Verify a strategy to solve a puzzle or game
- b. Incorporate games involving money sense
- c. Modify budgets
- d. Analyse expenses versus expenditures
- e. Analyse modified budgets, increases and decreases.
- f. Show knowledge of interest rates
- g. Demonstrate knowledge of financial institutions and use access to manage finances.
- h. Demonstrate knowledge on use of credit options such as loans, credit cards, etc.

4. Unit 4 - Measurement

- a. Solve problems that involve SI and imperial units in surface area measurements and verify the solutions.
- b. Solve problems that involve SI and imperial units in volume and capacity measurements

5. Unit 5 - Statistics

- a. Use data to create graphs
- b. Use graphs to extrapolate data
- c. Analyse misleading graphs
- d. Learn how to incorporate graphs into the budgeting process

Each unit will be approximately 18 classes

IV. Teaching Methodology

I will be teaching this course using a wide variety of methods. Some of which may include, lectures, hands on learning, multimodal sources, group projects.

V. Assessment

Assessment breakdown:

- Assignments- 15%
- Quizzes - 25%
- Tests/Exams - 30%
- Final Exam - 30%

Marks will be uploaded to PowerSchool within two weeks after the due date.

In this classroom we will strive to enable students to demonstrate what they understand, know and can do. Multiple and varied approaches will be used for assessment purposes, with special attention to the role of differentiated learning. Only summative or assessment of learning activities will be used to determine coursework grades.

VI. Resources and Materials

To every class bring:

- Writing Utensils
- Mathworks 11 Workbook
- Scientific Calculator - To be supplied by the student