

# Math 20-3 Course Syllabus - Fall 2020

## **Teacher:**

Mr. Head (micheal.head@pvsd.ca)

## **Course Description:**

Math 20-3 focuses on mathematics that you will use in the workplace, especially if you are planning to apprentice for a trade, take a college course, or enter the workplace directly after graduating from high school. A fair amount of the work in this class includes a focus on consumer and business mathematics. Other areas concentrate on mathematics that will be essential knowledge for various trades and occupations.

## **Required Materials:**

- Binder & Loose Leaf or Notebook
- Math at Work 11 Textbook
- Calculator (with “sin”, “cos”, and “tan” buttons)
- Pencil/Eraser/Pen
- Ruler & Protractor
- Graph Paper

## **Course Evaluation:**

Unit Exams	20%
Assignments/Quizzes/Other Work	60%
Final Exam	20%

## **Attendance:**

Attendance is taken at the beginning of every class; to be marked present you must be ready to work with all of the expected materials present. If you arrive to class late, please enter the room quietly and be sure that the attendance is changed after the lecture/activity is finished.

For missed classes, it is your responsibility to get missed notes, assignments, and information from a classmate.

Missed exams or quizzes will be made up outside of class time (preferably at noon hour) and arranged on a person to person basis as the student's responsibility to arrange.

## **Assignments:**

Complete your work to the best of your ability and hand it in on time! All work that is assessed must be handed in. If you miss an assignment, or forget it, or lose it, or whatever, it still has to be handed in. Even if so many days have passed and it is now worth fewer marks, you still have to hand it in. Leaving work incomplete/not handed in is not an option! Students with incomplete assignments may be required to come in over the noon hour until all assignments are completed.

## **Teacher Expectations:**

To be successful in a secondary math class, students must take responsibility for their own learning. Meaning:

- Be on time with all required materials
- Pay attention and engage in class lectures, discussions, and activities
- Use class time efficiently and quietly
- Copy notes and examples from class into your notes or handouts provided
- Ask for help! Please see me to set up some time for extra help if needed
- Fully complete homework assignments on a regular basis and submit them in a timely fashion. Failure to do so will result in you not being adequately prepared for assessments

## **Course Topics & Timeline:**

### **Unit 1 - Surface Area**

Focus will be on extending and applying your understanding of surface area

### **Unit 2 – Drawing & Design**

Focus is on extending and applying understanding of 2-D and 3-D objects and using proportional thinking to solve problems that involve unit analysis and scale.

### **Unit 3 - Volume and Capacity**

Focus will be on extending and applying your understanding of volume and capacity

### **Unit 4 – Interpreting Graphs**

Focus will be on extending and applying your understanding of reading and interpreting graphs

### **Unit 5 – Banking & Budgeting**

Focus is on demonstrating an understanding of compound interest as well as financial institution services used to access and manage personal finances, including credit options and developing budgets

### **Unit 6 – Slope**

Focus will be on being able to demonstrate an understanding of slope with respect to rise over run, rate of change and solving problems.

### **Unit 7 – Trigonometry of Right Triangles**

Focus is on solving problems involving two or more right triangles.