Grade 12 Essential Mathematics

Course Outline 2016 – 2017

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Description

The Essentials Math Curriculum is designed to help students develop their mathematical literacy in such a way that is useful in their daily lives. This includes understanding how mathematical concepts are connected to business, industry, government, and the environment.

Students will be active learners in this class. Co-operation, interaction, and communication will be emphasized as students construct their own meaning.

Textbook: Math at Work 12 (McGraw-Hill Ryerson)

Units of Study

1. Vehicle Finance

2. Probability

3. Home Finance

4. Geometry and Trigonometry

5. Precision and Measurement

6. Statistics

NOTE: The Analysis of Games and Numbers unit is integrated into the course throughout the year.

Materials

Things you need to bring to each class!

Binder, loose-leaf paper, highlighters, pens, pencils, **Scientific Calculator**, ruler, and graph paper.

Tests and Quizzes

There will be 2 or 3 major tests each term, with quizzes in between. These are not necessarily unit tests, but progress tests based on the material we have covered since the last test. Some cumulative questions will be asked.

Tests are intended to evaluate your progress. Most of my test questions are short answer and long answer. As mentioned before, this course is all about applications to real life.

I encourage you to ALWAYS attempt every question on a test. **Partial marks** will be awarded if you show some understanding.

If you are sick on the day of the test, I expect a note from your parents the next day. If you know in advance you will be missing, please let me know. You will write the test in advance, or in a spare, or **at the latest in the class period following the test**.

For quizzes, you may or may not be given notice. This should not be an issue if you are keeping up with daily work.

Evaluation

Knowledge & Understanding 40%

Application 40%

Communication 10 %

Inquiry/Thinking 10%

**The term mark is worth 70% and the Provincial Exam is 30%**

You may prepare a single-sided study sheet for all tests this year. Please note that no formula sheets will be provided for tests. It is your responsibility to include these on your study sheet.

Expectations

1. **Be on time and be prepared**. Bring all of the necessary materials to class with you.
2. **Be diligent**. You are expected to complete all of the assignments given to you. The more dedicated you are to your work in this class, the better you will do.
3. **Be independent**. Take ownership of your learning. If you are having trouble with any of the material, please talk to me. I am available for extra help. Also remember that your classmates are an excellent resource.
4. **Be responsible**. If you have to miss a class, you are required to find out what lesson notes/handouts you need. If you are absent the day of a test, you will write the test the first day you return.
5. **Be respectful.** Work cooperatively with classmates and treat one another in a Christ-like manner. We are a community of learners that depend on each other for success.
6. **Be rewarded**! Ask questions and be an active learner. Please know that I will do my very best to make you feel at ease as you learn and experience the challenges of this course. Discover how your gifts help you to get the most from this course!

Miscellaneous

Please do not ask to go to the **washroom** during lecture/discussionor test times.

**Food and drinks** are permitted providing that no mess is made and that you check with me first. Please do not eat while I am teaching or we are having a class discussion.

**Portable music players** are ok to use only during independent work times. Adjust your volume so that the people sitting around you don’t have to listen to your music too.

Academic Integrity

Guidelines for academic integrity are outlined in your agenda book. Please read this information carefully. In particular, take note of the following acts of academic dishonesty:

* Copying another student’s work for any required assignment.
* Providing another student with an assignment for the purpose of plagiarism.
* Sharing information when assignments are to be done individually.