

Essential Skills Mathematics 40S

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Welcome to Grade 12 Essential Skills Math!

The aim of the Consumer Mathematics course is to equip students with the math skills required to function as a member of society. Students will learn skills that will help them to be careful and educated consumers of goods and services.

**Contrary to popular belief, Essential Skills Math is not easy math. It is, however, PRACTICAL math. Students will need to put effort into daily homework and assignments. **

You will be expected to record notes & examples, participate in discussions and ask questions, if necessary.

If you don't understand something, please ask! Sharing your questions or comments during class helps me teach the class and helps you and your classmates learn.

Calculators: Students must have a scientific calculator.

Evaluation

You will never be surprised with any assessments. I will always give you an outline of how you will be assessed and what you will be assessed on. You will need to keep up with your homework, study, and work hard to do well in this course and take advantage of this learning opportunity you have been given.

Course material will be weighted as follows. Remember that you always have a chance to improve a mark. Do not give up on learning an outcome.

Term (80%):

Knowledge and Understanding	50%
Problem Solving	30%
Mental Math and Estimation	20%

Exam (20%)

Note: All assignments are due at the **beginning** of class.

The essence of mathematics is not to make simple things complicated, but to make complicated things simple. ~S. Gudder

"An investment in knowledge pays the best interest" - Benjamin Franklin

Extra Help

Please use these opportunities to receive some individual help if and when you need it.

- Tuesdays and Thursday at lunch – Please let me know that you are planning on coming. These times are subject to change based on other commitments I have that week at lunch.
- Other times by appointment.

Required Materials

3 ring binder, paper, dividers, pen/pencil, scientific calculator, graph paper

Required Course Outcomes

Analysis of Games and Numbers

- Analyze puzzles and games that involve logical reasoning, using problem-solving strategies.

Vehicle Finance

- Solve problems that involve the acquisition, operation, and maintenance of a vehicle when buying, leasing, leasing to buy

Statistics

- Solve problems that involve measures of central tendency including mean, median, mode, weighted mean and trimmed mean
- Analyze and describe percentiles

Precision Measurement

- Demonstrate an understanding of the limitations of measuring instruments including precision, accuracy, uncertainty and tolerance

Career Life

- Create a plan for the future, including possible career choices and their requirements.

Home Finance

- Solve problems involving the purchase and maintenance of a house

Geometry and Trigonometry

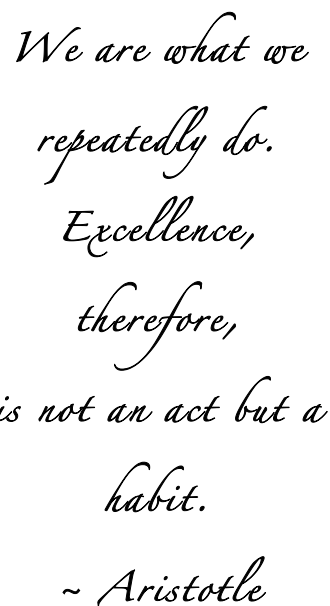
- solve problems by using the sine law and cosine law, excluding the ambiguous case.
- Solve problems that involve triangles, quadrilaterals and regular polygons

Business Finance

- Critique the viability of small business options by considering expenses, sales, profit or loss
- Demonstrate an awareness of the government taxation forms and procedures involved in owning a business

Probability

- Analyze and interpret problems that involve probability.



*We are what we
repeatedly do.
Excellence,
therefore,
is not an act but a
habit.
~ Aristotle*