

Math 10 Foundations and Pre-Calculus

INTRODUCTION

Math 10 Foundations and Pre-Calculus is a continuation of junior level mathematics with new topics being presented to prepare students for senior level math. By the end of Math 10, you will be prepared to decide whether to continue along the Foundations pathway or the Pre-Calculus pathway for Grade 11. If any student wishes to continue with Mathematics or Sciences for post-secondary, it is recommended that he/she should pursue both pathways.

Math 10 is not an easy course so it is expected that all students should strive to do their best. Homework should be completed on a regular basis but may not be sufficient for all students. It is expected that students review previously taught material frequently.

SUPPLIES

These are to be brought to every class:

1. Binder with lined and graph paper (you can print graph paper off from my website)
3. PENCILS!!! (Homework should be done in pencil)
4. Good eraser (i.e. staedler)
5. Ruler
6. Reliable scientific calculator (needs to have Sin Cos and Tan buttons)
7. Math 10 textbook

TOPICS BREAKDOWN

Ch.4 Exponents and Radicals

Ch.5 Polynomials

Ch.6 Linear Relations and Functions

Ch.7 Linear Equations and graphs

Ch.8 Solving Systems of Linear Equations Graphically

Ch.9 Solving Systems of Linear Equations Algebraically

Arithmetic Sequences and Series

Ch.3 Right Triangle Trigonometry (Sin, Cos, Tan)

Financial Literacy (gross and net pay, types of income, income tax and other deductions)

MARKS BREAKDOWN:

Tests: 50%

Quizzes: 15%

Homework/Notes: 15%

Final Exam: 20%

Prepare for tests and quizzes. The purpose of quizzes is to provide you feedback about what you know well and what needs further clarification. Regular review reduces the time needed for test preparation later.

There are no retests. Missed quizzes will get a mark of zero and cannot be re-written.

EXPECTATIONS

1. Be here and be here on time.

Because math builds strongly on previous learning, a single missed class can greatly affect your learning and understanding of course material. If you miss a class due to an unavoidable absence, you are responsible for catching up on your own time. In the event that you are absent during a test/quiz, be prepared to write the test/quiz upon your return.

2. Come to class prepared and ready to learn.

Bring your supplies (listed previously)

3. Be actively involved in the learning process.

In class, stay focused, listen, take notes, participate, and ask questions.

4. Take responsibility for your learning.

Learning takes focus, attention, commitment, and energy. To be successful, you must consistently work at it a bit at a time, rather than resort to cramming at the last minute.

- Keep an organized notebook and review class notes and examples to build understanding of concepts and skills.
- Self mark assignments using the text answer key or posted solutions. Do corrections and note questions that give you difficulty.
- Be able to explain how and why you followed a particular strategy or solution. On unit tests you will be expected to show all work and give justification for solutions. Marks will not be given for a correct final answer without evidence of how that answer was derived.

Work Habits

Work Habit marks are independent of achievement marks.

- A “G” student: consistently does his/her homework, has good attendance, is attentive in class, is respectful, and tries his/her best to be successful.
- An “S” student: completes homework most of the time, attends regularly, is attentive most of the time in class, is sometimes off-task, and could try harder to be successful.
- An “N” student: consistently does not do his/her homework, does not attend regularly, is inattentive in class, acts inappropriately, and does not try to be successful.

Electronic Devices

You may listen to music on your smart devices when working independently (i.e. classwork time) provided that you do not disrupt the learning of yourself or others. Sharing earphones are not allowed. Smart devices can be used if they are for educational reasons and do not distract the learning atmosphere in the class. During instructional time, phones are put away.