



Cawthra Park Secondary School Mathematics Department Foundations of Mathematics, Grade 10 Applied Mathematics Course Overview

COURSE CODE:
PREREQUISITE:

MFM2P
MFM1P

DEPARTMENT HEAD:
CREDITS:

L. Fernandes
One

GOALS OF THE MATHEMATICS PROGRAM

1. To develop and extend numeracy and algebraic skills.
2. To analyze and apply appropriate strategies to solve both familiar and unfamiliar problems.
3. Use appropriate mathematical conventions to effectively communicate solutions to problems.

OVERVIEW

This course enables students to consolidate their understanding of linear relations and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and hands-on activities. Students will develop and graph equations in analytic geometry; solve and apply linear systems, using real-life examples; and explore and interpret graphs of quadratic relations. Students will investigate similar triangles, the trigonometry of right triangles, and the measurement of three-dimensional figures. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

COURSE STRANDS

Measurement and Trigonometry

Modelling Linear Relations

Quadratic Relations

ASSESSMENT AND EVALUATION

Evaluation in this course takes many forms, and may be based on **products**, **conversations** and **observations**. A student's final mark is made of two parts: 70% is based on evaluation across the entire semester, and 30% is based on one or more components of a final evaluation, administered at or toward the end of the semester.

Teachers use their **professional judgment** to determine a final mark, based on the following four categories:

1. Knowledge and Understanding: Subject-specific content acquired in the course (knowledge), and the comprehension of its meaning and significance (understanding).
2. Application: The use of knowledge and skills to make connections within and between various contexts.
3. Thinking: The use of critical and creative thinking skills and/or processes.
4. Communication: The conveying of meaning through various forms.

Students' **learning skills** and **work habits**, including timely completion of homework and assignments, attendance and punctuality, collaborative work, and responsible student behaviour, will also be assessed on an ongoing basis.

USE OF PERSONAL DIGITAL DEVICES

With teacher approval, devices may be used during class time for class-related work, time-management and planning, or other academic uses. Inappropriate use of devices may result in this courtesy being revoked. Teachers are free to set their own rules regarding the use of devices in class, and to change them at any time.

ADDITIONAL INFORMATION

Cawthra Park can be a very busy place. Students should establish deadlines and assessment dates with their teachers in advance, when possible. Daily attendance is essential in mathematics, due to its cumulative nature. Plagiarism, including misrepresentation of original work, cheating, theft of evaluation instruments, use of unauthorized aids, and false representation of identity, will result in appropriate consequences. Please refer to the Student Handbook under the "About Us" section of the Cawthra Park website (<http://www.cawthrapark.com>) for more details on assessment and evaluation policies.