MATHEMATICS 10-3
MAT1793
5 Credit Course

ALTERNATIVE EDUCATION

Prerequisite	• None
Required Materials & Resources	• Scientific calculator • Formula sheet

Course Overview

Math 10-3 consists of 4 units of study, as outlined below. The student's **school-based** mark is weighted as follows:

Unit & Topics of Study	Weighting
Unit 1: Number • Solve problems that involve unit pricing and currency exchange, using proportional reasoning; Demonstrate an understanding of income, including Wages; Salary; Contracts; Commissions; Piecework to calculate gross pay and net pay.	25%
Unit 2: Algebra • Solve problems that require the manipulation and application of formulas related to: Perimeter; Area; Pythagorean theorem; Primary trigonometric ratios; Income	25%
Unit 3: Measurement • Demonstrate an understanding of the metric system (SI) by: Describing the relationships of the units for length, area, volume, capacity, mass, and temperature; Demonstrate an understanding of the imperial system by: Describing the relationships of the units for length, area, volume capacity, mass, and temperature. Comparing the American and British imperial units for capacity; Applying strategies to convert imperial units to SI units; Solve and verify problems that involve SI and imperial linear measurements, including decimal and fractional measurements. Solve problems that involve SI and imperial area measurements of regular, composite, and irregular 2-D shapes and 3-D objects, including decimal and fractional measurements, and verify the solutions	25%
Unit 4: Geometry • Analyze puzzles and games that involve spatial reasoning, using problem-solving strategies. Demonstrate an understanding of the Pythagorean theorem by; identifying situations that involve right triangles; verifying the formula; applying the formula; solving problems; Demonstrate an understanding of similarity of convex polygons, including regular and irregular polygons. Demonstrate an understanding of primary trigonometric ratios (sine, cosine, tangent) by: applying similarity to right triangles; generalizing patterns from similar right triangles; applying the primary trigonometric ratios; solving problems; Solve problems that involve parallel, perpendicular, and transversal lines, and pairs of angles formed between them; Demonstrate an understanding of angles, including acute, right, obtuse, straight and reflex, by: Drawing; replicating and constructing; Bisecting; solving problems	25%
*Total	100%

Assessment	*The student's grade will be calculated as follows (within each unit of study):
	<table><tr><td>Coursework-Modules</td><td>20%</td></tr><tr><td>Quizzes, exams, labs, projects</td><td>80%</td></tr></table>

- Alternative Education does not publish report cards.

- Parents and students are encouraged to keep up to date on PowerSchool and contact their teacher if there are any issues.

Important note regarding assessment	A wide range of assessment information is used in the development of a student's final grade. In Edmonton Catholic Schools, individualized assessments provide specific information regarding student progress and overall performance in class. Assessment may vary from student to student, differentiating for various student needs. It should also be noted that not all assignments are used to determine the final grade, and that scale factors may have been used to determine the weight of individual assignments.