William Aberhart Grade 10 Mathematics Courses

	Math 10-3 (E) Workplace and Apprenticeship 5 credits	Math 15-5 (E) Preparation for Math 10C 5 credits	Math 10C (E, F, S) Combined 5 credits	Math 10C AP (E, F) Advanced Placement 5 credits
Who?	- Did not meet grade 9 level expectations in Mathematics - And/or are interested in Workplace and Apprenticeship Mathematics	- Demonstrated Basic Achievement - Have been challenged by Algebra, Exponents, Fractions and Problem Solving in Math 9. - Intend to take Math 10C	- Demonstrated Basic, Good or Excellent Achievement in Math 9	- Demonstrated Excellent Achievement in Math 9 - Have a passion for Math - Are motivated - Wish to pursue mathematics at a level beyond high school
Topics	1. **Measurement**: linear measurement, area and volume, mass, capacity and temperature, 2-D shapes and 3-D objects (regular, composite and irregular shapes) 2. **Geometry**: spatial reasoning, Pythagorean theorem, similarity of polygons, primary trigonometric ratios, parallel lines and transversal, properties of angles 3. **Number**: unit pricing, currency exchange, proportional reasoning, earning an income 4. **Algebra**: manipulating and applying formulas	The course provides learning opportunities that will develop student competency in knowing how to learn, thinking critically, applying multiple literacies, identifying and solving complex problems, and demonstrating good communication skills. The course will enhance numeracy skills in students, develop their critical thinking and problem solving abilities, and set them up for success in future courses in mathematics. This course is offered first semester and students are expected to register in Math 10C second semester.	1. **Measurement**: linear measurement, surface area and volume, proportional reasoning, primary trigonometric ratios 2. **Algebra and Number**: prime factors and applications, irrational numbers, real numbers, rational exponents, polynomials, factoring 3. **Relations and Functions**: relations and functions, linear relations, function notation, systems of linear equations, coordinate geometry, equation of a line, slope	The regular Math 10C topics are covered on an accelerated basis and then enriched to increase the students' depth of understanding. At the end of the semester, despite having learned additional concepts, students' final grade will be adjusted in order to reflect the grade they would have received in a regular Math 10C course.
Notes	Successful students will be recommended to register in Math 20-3 in grade 11.	Successful students earn credits in the Locally Developed Course, Math 15-5, and are expected to complete Math 10C second semester of grade 10.	Successful students will have the option of taking: Foundations of Math (Math 20-2) or Pre-Calculus (Math 20-1) in grade 11.	Spanish Bilingual Students must register in Math 10CSpanish. In grade 11, they may enrol in Math 20-1AP (with teacher recommendation).

*E = English, F = French, S = Spanish

Mathematics Course Sequence