

Mathematics – Grade 10 – Advanced Placement**MF2DP**

This course enables students to broaden their understanding of relations, extend their skills in multi-step problem-solving and algebraic processes through investigation, the effective use of technology, and abstract reasoning. Students will explore quadratic relations and their applications; solve and apply linear systems; verify properties of geometric figures using analytic geometry; and investigate the trigonometry of right and acute triangles. In addition, students will investigate functions and their applications, develop an understanding of transformations of functions, develop facility in using function notation, operating with polynomial, rational, and exponential expressions and communicating mathematical reasoning. This course prepares students for the grade 11 Advanced Placement course (MCR3UP) covering the grade 10 MPM2D1 topics, as well as additional grade 11 MCR3U1 unit.

Prerequisite: minimum average of 82% in MPM1D1