

**Growing Minds**  
Mathematics Department  
Course Outline  
Functions and Relations 11  
(MCR3U)

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This course is based on the following Ministry of Education documents:  
The Ontario Curriculum Grades 11 and 12, Mathematics, 2000.

Course Name: Functions and Relations, Grade 11,  
University Preparation

Course Type: University Preparation

Course Code: MCR3U

Credit Value: One credit

Hours: 110 hours

Prerequisite: Principles of Mathematics, Grade 10, Academic

Course Description (As specified in the Ministry of Education Policy Document)

This course introduces some financial applications of mathematics, extends students' experiences with functions, and introduces second-degree relations. Students will solve problems in personal finance involving applications of sequences and series; investigate properties and applications of trigonometric functions; develop facility in operating with polynomials, rational expressions, and exponential expressions; develop an understanding of inverses and transformations of functions; and develop facility in using function notation and in communicating mathematical reasoning. Students will also investigate loci and the properties and applications of conics.