



# MISSISSAUGA SECONDARY SCHOOL

## Grade 9 Academic Math (Principles of Mathematics)

### Course Overview

<b>Course Code:</b> MPM1D0	<b>Credit Value:</b> 1.0
<b>Pre-requisite:</b> Grade 8 Math	<b>Textbook:</b> Principles of Mathematics 9 (\$95 replacement)

### Course Description:

This course enables students to develop an understanding of mathematical concepts related to algebra, analytic geometry, and measurement and geometry through investigation, the effective use of technology, and abstract reasoning. Students will investigate relationships, which they will then generalize as equations of lines, and will determine the connections between different representations of a linear relation. They will also explore relationships that emerge from the measurement of three-dimensional figures and two-dimensional shapes. Students will reason mathematically and communicate their thinking as they solve multi-step problems. Learning through abstract reasoning is an important aspect of this course.\*

Successful completion of this course prepares students for Principles of Mathematics, Grade 10, Academic (MPM 2D0) or Foundations of Mathematics, Grade 10, Applied (MFM 2P0).

### Course Breakdown:

<b>Unit 1:</b> Number Sense & Algebra	<b>Unit 3:</b> Analytic Geometry
<b>Unit 2:</b> Linear Relations	<b>Unit 4:</b> Measurement & Geometry

### Evaluation Breakdown:

<b>70%</b> <b>(Term)</b>	Knowledge & Understanding:	<b>25%</b>	The following assessment & evaluation instruments may be utilized to evaluate students on the four categories of knowledge and skill: <ul style="list-style-type: none"> <li>• Tests &amp; Quizzes</li> <li>• Assignments</li> <li>• Projects &amp; Presentations</li> </ul>
	Application:	<b>25%</b>	
	Communication:	<b>5%</b>	
	T.I.P.S. : (Thinking, Inquiring, Problem Solving)	<b>15%</b>	
<b>30%</b> <b>(Summative)</b>	Final Exam:	<b>15%</b>	
	Midterm Exam:	<b>5%</b>	
	EQAO Math Assessment:	<b>10%</b>	
<b>Note:</b> The following Learning Skills will be assessed and recorded on the student's report card: <ul style="list-style-type: none"> <li>• Working Independently</li> <li>• Organization</li> <li>• Teamwork</li> <li>• Work Habits/Homework</li> <li>• Initiative</li> </ul>			

\* For more information, please refer to the Ontario Ministry of Education Grade 9 Curriculum Outline at:  
<http://www.edu.gov.on.ca/eng/curriculum/secondary/math910curr.pdf>

### **Attendance & Punctuality:**

Regular attendance to scheduled classes, and active participation in learning activities, will provide students with the experiences necessary to successfully complete this credit. Attending classes on time will ensure that there are no gaps in the student's learning. Furthermore, it will also demonstrate commitment to learning, and respect for self & others. Please refer to the student agenda for more information regarding the Attendance and Punctuality Policy.

### **Homework:**

Consistent homework completion is essential for student success. Although students will be given some class time to initiate their homework, they should expect an average of 30 minutes of homework each night. At the beginning of each unit or chapter, students will be given a homework outline. Consequently, students will have the opportunity to plan effectively, manage time efficiently, and work ahead, if possible. Lastly, homework will be monitored periodically, according to your teacher's instruction.

### **Missed Evaluation:**

Students will be given ample notice regarding the scheduled date for an evaluation. Students who know ahead of time that they will be absent for the evaluation, must discuss the situation with their teacher **beforehand**. Students who are unexpectedly absent for an evaluation for a legitimate reason (i.e. illness) must provide their teacher with a Mississauga Secondary School, Math Department, "REASON FOR ABSENCE" Form, which is available online at the course Angel site, as well as the MSS website ([www.msslions.ca](http://www.msslions.ca)). A **completed** form must be submitted to your teacher **upon return**. All completed forms will be retained on file. If approved, the student will be given an opportunity to write an alternate evaluation on the immediate Thursday, during the student's lunch period, in the specified classroom. For more details, please refer to the Math Department Information Board, which is located in the Math Forum area between Rooms 303 & 304.

### **Deadlines:**

Students will be given ample notice regarding due dates for assignments. Students are expected to submit work to their teacher **on time**. Please refer to the student agenda for more information concerning the Deadlines Policy.

### **Extra Help:**

Extra help is available to the student in many forms. Firstly, students are encouraged to seek assistance from their teacher, at the appropriate time during the regularly scheduled class. If further assistance is required, students may meet with their teacher during the office time specified by their teacher. **Please record it below.**

<b>Teacher Name:</b>  _____	<b><u>Teacher Assistance Availability:</u></b>				
	Mon. _____	Tues. _____	Wed. _____	Thur. _____	Fri. _____
	<b>OR</b>				
	Day 1: _____	Day 2: _____	Day 3: _____		
	(Complete above as directed by your teacher)				

***I have read the Course Overview for MPM1D0.***

\_\_\_\_\_  
Student Signature

\_\_\_\_\_  
Parent/Guardian Signature