

# MATHEMATICS: MPM1D

## Principles of Mathematics

### COURSE OUTLINE:

St. Mary's High School  
Fall 2017  
Mr. Sadler

**Credit Value:** 1

**Prerequisite:** None

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 the 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.

[Course selection book]

**Text:** Principles of Mathematics 9. Erdman, Wayne et al. McGraw-Hill Ryerson, 2006.

### Rules:

1. Be on time.
2. Be prepared - pen, pencil, notebook and text(s) etc.
3. Assigned work is due on assigned date.
4. No cell phones, iPods in class.
5. If you miss a class, it is **your** responsibility to:
  - a) obtain any work, which was missed.
  - b) determine what material was submitted for evaluation and submit it.
  - c) obtain all handouts and assignments.
6. **Show respect at ALL TIMES.**
  - a) Do NOT pack up early
  - b) Do NOT line up at the door
  - c) Obey the seating plan that you are given

## Expectations

1. Come prepared to each class with paper, pencils, calculator and textbook on desk when period begins
2. Homework will be assigned on a nightly basis.
3. Show respect to whomever is speaking at **all** times.
4. Learning is an active process! Expect to be called on during class on a regular basis.
5. If you have a question, please raise your hand! Chances are, if you have a question, there are several others with the same question but are too shy to speak up.
6. You will learn something new everyday in my class!

## Attendance:

The Ontario Ministry of Education and Training Document, Ontario Secondary Schools: Grades 9 to 12, states that "regular attendance at school is critical for the student's learning and achievement of course expectations."

## Evaluation Criteria

As a student in MPM1D1, it is important that you fully understand how your final mark will be determined. The purpose of this handout is to let you know what is expected of you in this course and specifically how you will arrive at your final mark.

### Evaluation:

Knowledge/Understanding . . . . .	30%
Applications . . . . .	10%
Thinking/Inquiry/Problem Solving . . . . .	25 %
Communication . . . . .	5 %
EQAO Test . . . . .	10%
Final Examination. . . . .	20 %

## **Tests**

A class test will be given after every unit, perhaps twice in a unit if it is a complex one. Reasonable advance notice will be given to the students for all major tests. Each unit is approximately two weeks long and all tests will be on **Tuesday** this year.

Assessments and evaluations are taken very seriously in this class. It is extremely important that all students be present on the day of a test. Attempts will be made to avoid conflicts with test dates. However, if a student knows that it is impossible to be present for a test, he/she must make arrangements with Mr. Sadler, to write their assessment prior to the test date.

### **Late Assignment Policy**

All assignments are due on the date assigned. There will be eight assignments this year (one per unit) due on the same day as the test. Late assignments will be accepted with a **penalty of 10% per day** up to a maximum of **five days**. Assignments will no longer be accepted once solutions are posted on the website or assignments are returned to students.

### **Extra Help**

**Extra help is available daily at lunch and before school and will be exclusively Monday nights after school (late taxis are available).**

### **Classroom Communication**

Homework will be assigned and checked on a nightly basis. Participation and professionalism in all classroom activities are strongly encouraged throughout the semester. Students will receive marks based on classroom co-operation and dedication to the subject matter. General articulation of knowledge, understanding and problem solving methods are considered in this mark.

### **Supplies**

Students will require a three-ring binder, 5 dividers, reinforcements, a scientific calculator, and graph paper (1/4" or 5-6mm squares) for this course.

### **Marks**

Your performance on assigned tasks will be made available to you periodically. It is your responsibility to check these updates and inform the teacher if there are any discrepancies.

### **Course Outline**

<b>Unit</b>	<b>Topic</b>	<b>Textbook</b>
1	Grade 8 Review	--
2	Polynomials	Ch. 3
3	Equations	Ch. 4
4	Problem Solving	Ch. 1
5	Relations	Ch. 2
6	Modelling With Graphs	Ch. 5
7	Slope	Ch. 6
8	Angles	Ch. 7
9	Measurement	Ch. 8-9

### **Web Page**

There is a course webpage for MPM1D1 which will contain handouts that have been given in the course, assignments, old copies of tests, assigned homework, information and links that will be useful for the course. The website is <http://www.mrsadler.net/MPM1D/> and students are encouraged to check in on a regular basis. Mr. Sadler can be contacted at the school at 376-4278. His email address is [mr.sadler@gmail.com](mailto:mr.sadler@gmail.com).



## Parent/Guardian Information Form for MPM1D

Hello, my name is Mr. Sadler and I will be teaching your son/daughter Grade 9 Academic math this year. Just a few facts about the course:

- 1) There will be a test and an assignment due on every other **Tuesday** of the semester. Assignments will have a **late penalty of 10% per day** if not submitted at the beginning of class.
- 2) Please expect between **30 and 60 minutes of homework each night** in this course. The reason that I give homework in this course is for three reasons: a) I teach the entire 75 minutes of the lesson b) practice time is needed for math...it is my job to ensure that your son/daughter understands the lesson when they leave my class, but it is your child's responsibility to make sure that the concepts are remembered; practice reinforces the concepts explained in class, and c) problem solving – there should be some questions that the students get to try before teacher assistance. At the beginning of each class we will take up homework solutions from the night before, but I want the students to at least struggle (a little) with the questions before the solutions are presented. Homework will be checked on a daily basis in this course.
- 3) My contacts are by email [mr.sadler@gmail.com](mailto:mr.sadler@gmail.com) and phone **(519) 376-4278** (the school's number). If your son/daughter is having difficulty with homework please feel free to email me and I can clarify the questions. My children go to bed at about 7:00pm, so my email time is about **7:00-9:00** each night.
- 4) Extra help is available daily at lunch and after school upon request.
- 5) The course website is <http://www.mrsadler.net/MPM1D> and the video introducing myself to the class is <https://youtu.be/gVfSBuVUsAo>

**Student Name:** \_\_\_\_\_

**Student's Signature:** \_\_\_\_\_

**Parent/Guardian Signature:** \_\_\_\_\_

**Best Way To Contact Parent/Guardian: (phone/email/etc):**

Please check any of the below:

\_\_\_\_ - I wish to be contacted when my child receives a mark less than \_\_\_\_ on a test/assignment.

\_\_\_\_ - I wish to be contacted within the first week to discuss the semester

\_\_\_\_ - I wish to be contacted when my child does not do homework on a regular basis

Any other comments/information that I should know about your child please list below: