



LONGFIELDS-DAVIDSON HEIGHTS S. S. MATHEMATICS Course Outline 2017-2018

Principles of Mathematics, Grade 9, MPM1D Academic

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Website: <http://mrleescience.wikispaces.com/MPM1D>

Guideline: Mathematics: Ontario Curriculum, Grades 9 and 10, Revised 2005

Text: Principles of Mathematics 9, McGraw-Hill Ryerson 2006 (**Replacement cost \$100**)

Prerequisite: None (Recommended with 70% plus in grade 8)

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.

Approximate Unit Overview

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|---------------------|-----------------------------|
| 1. Numeracy | 6. Linear Equations |
| 2. Polynomials | 7. Plane Geometry |
| 3. Equations | 8. Geometry and Measurement |
| 4. Relations | 9. Optimization |
| 5. Linear Relations | |

Classes are allocated to lessons, investigations, work time, reviews, tests, mastery, Summative, exam preparation and EQAO.

Evaluation: Term Work (70%):

Strand 1	Number Sense and Algebra	15 %
Strand 2	Linear Relations	15 %
Strand 3	Analytic Geometry	15 %
Strand 4	Measurement and Geometry	15 %
	Mastery Tests	10 %

Summative (30%): Final evaluation at end of the term including EQAO test.

Materials:

Students are **expected** to bring *their textbook, a scientific calculator, pencil, pen, eraser, ruler, three-ring binder, lined paper, graph paper, highlighters* and *their student planner* to class DAILY.




Expectations:

Daily 30 minutes completion of homework is MANDATORY and is critical for test and summative preparation. Students are **expected to attend all classes and hand in all assignments**. A list of classroom rules will be posted in the class and must be respected by all students.

Missed lessons due to absences:

In case a student is absent for any reason, it is important to note that the material covered in the missed classes will still be on the upcoming evaluation. It is the responsibility *of the student* to catch up on missed work – please copy out missed notes, show an attempt to complete the homework (see website homework calendar), check their answers (with the back text) and then, if having difficulties, to arrange for extra help with me showing me the above attempted work so I may optimize the help session.

Daily Math Help:

<p><u>Evening Homework Help</u> Provided by OCDSB Continuing Ed.</p>  <p>Monday-Thursday in LDHSS CAFETERIA from 6:30 to 9 pm for students gr.7-12</p> <p>*First time students are asked to bring their OEN # found on timetable.</p>	<p><u>Daily online Math Help</u></p>  <p>Homework Help is a FREE online math help resource for students in Grades 7-10. It also provides live one-on-one tutoring from Ontario teachers available Sunday through Thursday from 5:30PM to 9:30PM https://homeworkhelp.ilc.org/secure/login.php [This link is also on my website]</p> <p>[All you need is your Ontario Education Number (OEN) to enter on the above website; this number can be found on your report card or timetable]</p>	<p><u>Lunch Math Extra Help</u></p> <p>Room 304 (across from the math office)</p>  <p>Every Tuesday and Thursday Lunch : 11:40 am to 12:15 pm A math teacher and tutors will be available to help answer questions.</p>
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Please also see me if you need additional individual extra math help.

Mastery Skills: <https://sites.google.com/a/ldhss.ocdsb.ca/mastery/>

LDHSS is committed to student success in mathematics, and our Mastery program is a key component of this success. The website listed above explains the rationale behind the program, and its implementation. There are practice tests, FAQ, and evaluation on the website. Mastery is worth 10% of your final mark.

LDHSS Mathematics Test Policy:

Students are expected to be present on test days. Those students who know in advance that they will be away on the day of the test must alert their teachers as soon as possible. In the *case of illness students* must have a note written to the math teacher from a Parent/Guardian stating that they are aware that the student missed a test due to illness. In the case of a field trip, both the student and the teacher leading the field trip should notify the subject teacher in advance of the field trip.

LDHSS Assignment Policy:

In the event of a planned absence (trip, sporting event, family event, etc...) the student shall be responsible for informing the teacher and they shall arrange an alternative date for the student to complete the task. This should be *arranged prior to the student being away*. Where possible and at the discretion of the teacher, the student is expected to complete the missed assignment/test immediately upon her/his return to school

All assignments will have a specified due date and students are expected to respect these dates. Late submission may lead to marks being deducted at a rate of 10% per day up to 20% of the value of the assignment. Once the marked assignments are returned to the other students the teacher may assign a *zero*.

Plagiarism:

Work that is not the student's original material (i.e. copied, borrowed, electronically translated or stolen work) will not be included among the evaluation evidence that is considered for grading purposes because it provides "zero evidence" of a student's knowledge or skills related to the expectations being evaluated.

PARENT SECTION

How can you monitor your child's progress at home?

1) It is necessary that you along with your child monitor and **check my website** for *updated course information* such as course outline and policy, important test dates, summative, and exam dates, extra help hours, any posted assignments, etc...

Go to → school's website <http://ldhss.ocdsb.ca/> Click → Academics → Mathematics → Our teachers
OR simplify bookmark → <http://mrleescience.wikispaces.com/MPM1D>

2) Students **are expected** to get all their **major unit tests signed** by their parents and or guardian. Please check with your child and my website for the dates when each unit test is returned. In order to help students be more prepared for future units, students should make corrections to their previous unit test using their notes, by seeking help during the extra hours noted on my website or by working with a peer.

3) Expect your child to do **about 30 minutes of homework** in Math DAILY. Students are reminded to show that they have checked their homework with the answers provided at the back of the textbook. Questions will be answered at the beginning of the next class, so each student should have any question(s) ready to ask at the start of class as these are taken up.

4) Check your **child's quiz results**. For each unit of study, there are quizzes before the unit test. These do not need to be signed by the parents/guardian; however, it is a good idea to ask your child how they did and most important, whether they did their corrections to each quiz and understood it!

5) Take advantage of meet the teacher night as well as parent-teacher interview opportunities provided at parent/guardian interview nights or request a phone interview.

6) Ensure that your child spend time at home preparing for all quizzes, test and EQAO.

I truly hope the above tips will help your child have a successful year and reach their best potential.

Please bookmark my website <http://mrleescience.wikispaces.com/MPM1D> so that you are able to check regularly for important dates and news.



I have **read and understood the outline and policies** for the **grade 9 Academic MPM 1D Math** course above and understand this outline is also posted on the teacher's website for future reference.
Please save the previous pages in your child's binder. Please sign and return by **Monday, Sept 11th 2017**.

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Student's Name

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Student's Signature

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Parent/Guardian's Name

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Parent/Guardian's Signature

Home phone number: _____ Parent's Cell phone number: _____

Parent's Work phone number: _____

Parent's/Guardian's Updated EMAIL address (please print): _____