

HALIBURTON HIGHLANDS SECONDARY SCHOOL



Mathematics

Evaluation Policy for Grade 9 Academic Math MPM 1D



Course Code: **MPM 1D**
Level: **Grade 9, Academic** Teacher Contact Information: 705-457-2950
Credit Value: **1.0** Teacher:

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.

Strands of Study and Overall Expectations include:

Number Sense and Algebra; By the end of this course, students will:

- demonstrate an understanding of the exponent rules of multiplication and division, and apply them to simplify expressions;
- manipulate numerical and polynomial expressions, and solve first-degree equations.

Linear Relations; By the end of this course, students will:

- apply data-management techniques to investigate relationships between two variables;
- demonstrate an understanding of the characteristics of a linear relation;
- connect various representations of a linear relation.

Analytic Geometry; By the end of this course, students will:

- determine the relationship between the form of an equation and the shape of its graph with respect to linearity and non-linearity;
- determine, through investigation, the properties of the slope and y-intercept of a linear relation;
- solve problems involving linear relations.

Measurement and Geometry; By the end of this course, students will:

- determine, through investigation, the optimal values of various measurements;
- solve problems involving the measurements of two-dimensional shapes and the surface areas and volumes of three-dimensional figures;
- verify, through investigation facilitated by dynamic geometry software, geometric properties and relationships involving two-dimensional shapes, and apply the results to solving problems.

Efforts will be made to meet the individual learning needs of students in order to ensure these expectations are being met.

Course Outline / Units of Study:

Unit 1: Problem solving and the math processes	Unit 5: Modelling with Graphs
Unit 2: Linear Relations	Unit 6: Analysing Linear Relations
Unit 3: Polynomials and Exponents	Unit 7: Geometric Relations
Unit 4: Equations	Unit 8: Measurement

<p>Evaluation Structure:</p> <p>TERM:</p> <table> <tr><td>Knowledge/Understanding</td><td>20%</td></tr> <tr><td>Thinking/Inquiry</td><td>20%</td></tr> <tr><td>Communication</td><td>10%</td></tr> <tr><td>Application</td><td>20%</td></tr> </table> <p>CULMINATING ACTIVITIES :</p> <table> <tr><td>Summative Task</td><td>10%</td></tr> <tr><td>EQAO</td><td>5%</td></tr> <tr><td>EXAM</td><td>15%</td></tr> </table>	Knowledge/Understanding	20%	Thinking/Inquiry	20%	Communication	10%	Application	20%	Summative Task	10%	EQAO	5%	EXAM	15%	<p>Resources:</p> <p>Textbook: Principles of Mathematics 9 McGraw –Hill Ryerson Replacement Value \$80</p> <p>Policy Document: The Ontario Curriculum Grades 9 &10 Mathematics - 2007</p>
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Learning Skills:
Feedback will also be provided for student learning skills. Students are expected to reflect the following skills throughout the course:
Responsibility Organization Independent Work Collaboration Initiative Self-Regulation

Responsibility: Fulfills responsibilities. Completes & submits work ON TIME. Manages own behaviour.
Organization: Devises & follows a plan. Establishes priorities & manages time. Uses resources to complete tasks
Independent Work: Monitors, assesses & revises plans to complete tasks & meet goals. Uses class time wisely. Follows instructions with minimal supervision.
Collaboration: Accepts various roles in a group. Responds positively to ideas, opinions of others. Builds healthy peer relationships. Resolves conflict, builds consensus, shares resources and promotes critical thinking to solve problems and make decisions.
Initiative: Looks for and acts on new ideas. Innovative and takes risks. Demonstrates curiosity and an interest in learning. Approaches new tasks with a positive attitude. Advocates for all appropriately
Self-Regulation: Sets goals. Seeks help when needed. Reflects on own strengths, needs & interests. Identifies learning opportunities, choices and strategies. Perseveres and makes an effort when responding to challenges.

Students will receive each of the following letter grades:
E –Excellent, G – Good, S – Satisfactory, N - Needs Improvement

Evaluation:
Students will be assessed & evaluated according to the work produced & skills displayed. Methods of providing feedback will include assessing work in process & evaluating completed assignments, tests, co-operative learning activities, simulations and presentations. Peer & self-evaluations will also be utilized.
Student marks will be determined by evaluating process & product according to 4 categories & 4 levels. Please see the chart below for specific skills and key words used to determine student competency in the different categories.

Category	Level 1: 50-59%	Level 2: 60-69%	Level 3: 70-79%	Level 4: 80-100%
<p>Knowledge/Understanding</p> <ul style="list-style-type: none"> ➤ Knowledge of facts & terms ➤ Understanding of concepts & relationships 	<p>Limited display of knowledge, skills and ability to apply concepts</p>	<p>Some success in displaying knowledge, skills and application of concepts</p>	<p>Considerable display of knowledge skills and ability to apply concepts</p>	<p>Thorough understanding of concepts and ability to communicate, think creatively and apply concepts</p>
<p>Thinking/Inquiry</p> <ul style="list-style-type: none"> ➤ Critical thinking skills ➤ Creative thinking skills ➤ Inquiry Skills 				
<p>Communication</p> <ul style="list-style-type: none"> ➤ Communication of ideas & information ➤ Use of symbols & visuals ➤ Oral & written communication 				
<p>Application</p> <ul style="list-style-type: none"> ➤ Applications in familiar contexts ➤ Transfer of concepts to new contexts ➤ Making logical conclusions and predictions ➤ Use of technology ➤ Making connections 				

HALIBURTON HIGHLANDS SECONDARY SCHOOL

COURSE EXPECTATIONS AND EVALUATION POLICY



Welcome to MPM 1D

Attendance

Regular attendance is essential for academic success in school. It is the student's responsibility to inform the teacher *beforehand* of any planned absences. It is the student's responsibility to get notes assignments and any other information missed while absent from class. This should be done on the student's first day back, either during class, lunch hour or after school. **Any student that is truant the last three days of a semester will not be allowed to write his/her final examination.**

Tests

Students must be prepared to write tests on the assigned day. Students who miss a test for no valid reason will receive a mark of zero. Any student who knows that he/she will be absent for a valid reason during a test must make arrangements with the teacher *before* the period in which the test is to be written. Students who miss a test for any valid reason should be prepared to write the test on the first day back at school or should make suitable arrangements with the teacher on the first day back.

Assignments

If a student is absent on the day work is assigned, it is his/her responsibility to get the assignment from the teacher. If a student is absent when an assignment is collected, it is to be submitted at the beginning of the period on the first day back.

Late Assignment Policy "Not Done is not Acceptable"

Please adhere to our new HHSS Late Assignment Policy. Students received this in their period one class on the first day of the semester.

Plagiarism

Plagiarism is the act of taking someone else's ideas or writing and passing it off as your own. Whatever material students consult in the preparation of essays/projects should be properly credited to the writer or source. Material may be quoted if the student identifies it as a quotation and cites the author. Copying another student's work is cheating, and is also called plagiarism. **A first offense may result in a mark of zero or an opportunity to redo/resubmit the evaluation, after consultation with the student, parent, teacher, department head and school administrator. A second offense will result in a mark of zero, a call home and the student will be referred to the Principal. A third offense will result in a mark of zero and may result in an in-school suspension.**

Exemptions

In an effort to improve student task completion and to reward consistent daily contributions, students who earn a term average of 70% or greater in any grade 9 course, with all assignments completed and submitted on or before the first deadline, will be exempt from their Final Exam.

As well, students must not have accumulated more than 15 missed classes (all reasons, including illness) in the semester of their current course, to also be eligible for the exam exemption for each of their courses.

And lastly, students must also be in "Good Standing." A student's "Good Standing" may be jeopardized due to truancy, behaviour referrals, suspensions, etc. which will remove the exam exemption for their current course(s).

Computers and Ipads are tools for education; not entertainment devices. Students who are not on task may have their computer account disabled for the remainder of the day (or longer.)

I hereby acknowledge that I am fully aware of the expectations and evaluation in the **MPM 1D** course.

Student Signature: _____