

HALIBURTON HIGHLANDS SECONDARY SCHOOL



Mathematics Evaluation Policy for Grade 9 Applied Math MFM 1P



Course Code: **MFM 1P**

Level: **Grade 9, Applied**

Teacher Contact Information: 705-457-2950

Credit Value: **1.0**

Course Description:

This course enables students to develop an understanding of mathematical concepts related to introductory algebra, proportional reasoning, and measurement and geometry through investigation, the effective use of technology, and hands-on activities. Students will investigate real-life examples to develop various representations of linear relations, and will determine the connections between the representations. They will also explore certain relationships that emerge from the measurement of three-dimensional figures and two-dimensional shapes. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

Strands of Study and Overall Expectations include:

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

- solve problems involving proportional reasoning;
- simplify numerical and polynomial expressions in one variable, and solve simple first-degree equations.

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

- apply data-management techniques to investigate relationships between two variables;
- determine the characteristics of linear relations;
- demonstrate an understanding of constant rate of change and its connection to linear relations;
- connect various representations of a linear relation, and solve problems using the representations.

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

- determine, through investigation, the optimal values of various measurements of rectangles;
- solve problems involving the measurements of two-dimensional shapes and the volumes of three-dimensional figures;
- determine, 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: Algebraic Models
Unit 2: Rate/Ratio/Percent	Unit 6: Geometry
Unit 3: Exploring Linear Relationships	Unit 7: Measurement
Unit 4: Multiple Representations	Unit 8: Optimizing Measurements

<p>Evaluation Structure:</p> <table style="margin-left: 40px;"> <tr><td>Knowledge/Understanding</td><td>20%</td></tr> <tr><td>Thinking/Inquiry</td><td>15%</td></tr> <tr><td>Communication</td><td>15%</td></tr> <tr><td>Application</td><td>20%</td></tr> </table> <p>The above is reflected in the term work (worth 70% of the final mark). The summative includes a culminating activity and final exam (worth 30% of the final mark). The culminating activity uses EQAO materials worth 15% and a 15% final exam.</p>	Knowledge/Understanding	20%	Thinking/Inquiry	15%	Communication	15%	Application	20%	<p>Resources:</p> <p>Textbook: Pearson Math 9: replacement value \$100</p> <p>Policy Document: The Ontario Curriculum Grades 9 &10 Mathematics - 2005</p>
Knowledge/Understanding	20%								
Thinking/Inquiry	15%								
Communication	15%								
Application	20%								

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 	Limited display of knowledge, skills and ability to apply concepts	Some success in displaying knowledge, skills and application of concepts	Considerable display of knowledge skills and ability to apply concepts	Thorough understanding of concepts and ability to communicate, think creatively and apply concepts
<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 				

Learning Skills: Students are expected to reflect the following skills throughout the course:

Responsibility: Fulfils 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 and 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 the following letter grades: E - Excellent G - Good S - Satisfactory N - Needs Improvement

HALIBURTON HIGHLANDS SECONDARY SCHOOL

COURSE EXPECTATIONS AND EVALUATION POLICY



Welcome to MFM 1P

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 HHSS Late Assignment Policy. Students received this in their period one class on the first day of the semester. In the event of a late assignment students will be referred to room 6 during lunch until the assignment is complete. Parents/guardians will be contacted.

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.**

Computers 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 **MFM 1P** course.

Student Signature: _____