

HALIBURTON HIGHLANDS SECONDARY SCHOOL



Mathematics Evaluation Policy for Grade 11 College Mathematics



Course Code: MBF 3C

Level: Grade 11 College

Teacher Contact Information: 705-457-2950

Credit Value: 1.0

Teacher:

Course Description:

This course enables students to broaden their understanding of mathematics as a problem-solving tool in the real world. Students will extend their understanding of quadratic relations; investigate situations involving exponential growth; solve problems involving compound interest; solve financial problems connected with vehicle ownership; develop their ability to reason by collecting, analyzing, and evaluating data involving one variable; connect probability and statistics; and solve problems in geometry and trigonometry. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

Prerequisite: MFM 2P or MFM 2D

Strands of Study and Overall Expectations include:

A. Mathematical Models

- A1. make connections between the numeric, graphical, and algebraic representations of quadratic relations, and use the connections to solve problems;
- A2. demonstrate an understanding of exponents, and make connections between the numeric, graphical, and algebraic representations of exponential relations;
- A3. describe and represent exponential relations, and solve problems involving exponential relations

B. Personal Finance

- B1. compare simple and compound interest, relate compound interest to exponential growth, and solve problems involving compound interest;
- B2. compare services available from financial institutions, and solve problems involving the cost of making purchases on credit;
- B3. interpret information about owning/operating a vehicle, and solve problems involving the associated costs.

C. Geometry and Trigonometry

- C1. represent, in a variety of ways, two-dimensional shapes and three-dimensional figures arising from real-world applications, and solve design problems;
- C2. solve problems involving trigonometry in acute triangles using the sine law and the cosine law, including problems arising from real-world applications.

D. Data Management

- D1. solve problems involving one-variable data by collecting, organizing, analysing, and evaluating data;
- D2. determine and represent probability, and identify and interpret its applications.

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:

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|----------------------------|----------------------|
| 1. Trigonometry | 6. Compound Interest |
| 2. Probability | 7. Personal Finance |
| 3. One-Variable Statistics | 8. Quadratics |
| 4. Geometry in Design | |
| 5. Exponential Functions | |

<p>Evaluation Structure:</p> <p>Knowledge/Understanding 20%</p> <p>Thinking/Inquiry 15%</p> <p>Communication 15%</p> <p>Application 20%</p> <p>The above is reflected both in the term work (worth 70% of the final mark) and the summative culminating activities (worth 30% of the final mark). The culminating activity is a 15% project and a 15% final exam.</p>	<p>Resources:</p> <p>Textbook:</p> <p>Foundations for College Mathematics 11</p> <p>Policy Document:</p> <p>The Ontario Curriculum Grades 11& 12</p> <p>Foundations for College Mathematics 11 - 2007</p>
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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 & form ➤ 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:

<p>Responsibility:</p> <p>Organization:</p> <p>Independent Work:</p> <p>Collaboration:</p> <p>Initiative:</p> <p>Self-Regulation:</p>	<p>Fulfils responsibilities. Completes & submits work ON TIME. Manages own behaviour.</p> <p>Devises & follows a plan. Establishes priorities & manages time. Uses resources to complete tasks.</p> <p>Monitors, assesses & revises plans to complete tasks & meet goals. Uses class time wisely. Follows instructions with minimal supervision.</p> <p>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.</p> <p>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.</p> <p>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.</p>
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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 MBF 3C

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 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.**

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 **MBF 3C** course.

Student Signature: _____ **Parent's/Guardian Signature:** _____

Should it be necessary to contact you about your child's progress, it would be helpful if you would provide the appropriate information below:

Parent(s)/Guardian(s):

_____ Phone: (H) _____ (W) _____

E-mail: _____

_____ Phone: (H) _____ (W) _____

E-mail: _____

For students 18 years of age and over or who will turn 18 during the course:

I give permission for my teacher to contact my parents/guardians with regard to this course: