MFM 2P – Grade 10 Applied Mathematics

Teacher: Mr. N. White
Prerequisite: Grade 9 Applied or Grade 9 Academic Mathematics
Textbook: Handouts and Worksheets

Course Description

This course enables students to consolidate their understanding of linear relations and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and hands-on activities. Students will: develop and graph equations in analytic geometry; solve and apply linear ; systems, using real-life examples; explore and interpret graphs of quadratic relations; investigate similar triangles, the trigonometry of right triangles, and the measurement of three-dimensional figures; and consolidate their mathematical skills as they solve problems and communicate their thinking.

How This Course Supports the Ontario Catholic School Graduate Expectations

Students will apply Christian values to pose and solve problems, to make logical decisions, and to become critical thinkers who share their abilities for the benefit of all in their classroom and school community. A supportive mathematics classroom provides a caring and sensitive environment where the dignity and value of all students is respected and affirmed as they grow in confidence in their mathematical abilities. Mathematical investigations will promote a respect for God's creation and an understanding of the need to use resources wisely.

Unit Titles and Timing *(Unit timing and order may vary)*

Unit	Unit Title	Approx. Time
-----	Numeracy Review	5 days
Unit 1	Similar Triangles	7 classes
Unit 2	Trigonometry	8 classes
Unit 3	Linear Relations	10 classes
Unit 4	Linear Equations	7 classes
Unit 5	Linear Systems	12 classes
Unit 6	Quadratic Relations	6 classes
Unit 7	Quadratic Expressions	8 classes
Unit 8	Represent Quadratic Relations	8 classes
Unit 9	Volume and Surface Area	9 classes
Unit 10	Summative Review and Culminating Performance Task	6 classes

Evaluation of Student Achievement:

- 70 %   TERM WORK (tests, quizzes, assignments, investigations, etc.)
- 15 %   Final Exam
- 15 %   Culminating Assignment

Classroom Policies:

1. Notebook expectations
   - You must have a 3-ring binder with graph paper or lined paper
   - Notes may be written in pen, but all homework, assignments, tests and quizzes **MUST** be completed in pencil

- You must have a title and date on all notes as well as a page reference for homework assignments; these will help to keep your notebook organized
- Your notebook should be kept neat and up to date

2. Students must bring all necessary supplies to class daily (binder, textbook, pencil, ruler, and a calculator). A **GRAPHING CALCULATOR** is necessary to cover the curriculum expectations of this course. Graphing calculators will be used in class for this course and will be provided by the school.

3. Attendance is essential and will be monitored. It is the **responsibility of the student** to catch up on missed work after an absence.

4. <u>Homework – daily practice is essential in Mathematics</u>
   - Homework will be assigned daily and should be completed before the next class
   - Don't get behind

5. <u>Missed test/quiz</u>
   - Expect to write the missed assessment on **the day of your return** from being absent
   - It is your responsibility to make sure the test/quiz is completed
   - If prior knowledge of the absence is known (i.e. appointments, school activities), please have the courtesy to inform me and make alternate arrangements to write the test

6. Do not submit assignments later than the dates on which they are due unless you have received an extension from me. Extensions will not be granted unless you have spoken to me before the due date and have a legitimate reason. No assignments will be accepted once the assignments for the class have been marked and returned. Students must be aware that deadlines are important. Failure to comply with assignment deadlines may result in loss of marks or, in the case of compulsory components of the course not being handed in, the credit may not be granted.

7. Be considerate and be on time. **3 lates = detention**

8. **Seek extra help early if you are struggling with the course expectations. Extra help can be arranged with me during lunch.** It is the *responsibility of the student* to arrange extra help sessions.

Please review the course outline to your parents and both sign below indicating that you have read and understand the requirements of this course.

Copies of handouts and assignments along with relevant "how to" video clips can be found at www.nowyoudothemath.weebly.com

Yours in Catholic education,

Mr. Nick White
613-264-4724

whiten@cdsbeo.on.ca

Dear Students, Parents, Guardians,

I will contact you if any concerns arise about student progress during the semester. If you have any questions or concerns at any time about this course, student's progress or any other issues; do not hesitate to call me, Mr. Nick White, at the school (613-267-4724) or email me at whiten@cdsbeo.on.ca or through the website www.nowyoudothemath.weebly.com.

Please...
• Read and discuss this course outline,
• Sign it to indicate your knowledge and acceptance of the policies,
• Let me know whom I should contact regarding student progress,
• Return this form to me by **Friday September 11th 2015**.

Thank you!

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_____   _____
           Parent/Guardian Name   Parent's Signature

_____   _____
              Student's Name   Student's Signature

Contact person #1:   _____

Phone/location: _____   Best time: _____

Alternate phone: _____   Best time: _____

Email: _____

Preferred mode of contact (circle one):   PHONE   or   EMAIL

Contact person #2:   _____

Phone/location: _____   Best time: _____

Alternate phone: _____   Best time: _____

Email: _____

Preferred mode of contact (circle one):   PHONE   or   EMAIL

Comments/Questions: