Course: MFM 1P	**Teacher: Clement, Dhawan**	**Program Leader: R. Marchildon**
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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.

Big Ideas (overall learning outcomes for the course):
- Linear relations, proportional reasoning, measurement and geometry can all be used to solve real world problems.
- Data management techniques can be used to make predictions.
- Algebra is the formal language of math and is essential in communicating mathematical ideas.

Overall Curriculum Expectations:
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;
- 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;
- 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.

Instructional Strategies:
Westside teaching staff will use a variety of instructional strategies to help students develop and improve skills in the following areas: character, citizenship, communication, critical thinking and problem solving, collaboration and teamwork, and creativity and imagination.

Assessment and Evaluation:
Formative assessments are used to improve student learning by providing varied opportunities to demonstrate an understanding of course expectations in preparation for summative evaluations. Students will have the opportunity to complete mastery quizzes throughout each unit which may lead to a reduced summative assessment. Summative evaluations test groups of key expectations. Failure to complete a summative evaluation may result in the expectations of the course not being met and the credit not being granted.

The following soft skills will be assessed:
> *Responsibility, Organization, Independent Work, Collaboration, Initiative, Self-Regulation*

More details about Westside's Assessment and Evaluation Policy is available at:
http://www.ugdsb.ca/westside/wp-content/uploads/sites/74/2016/12/Westside-Assessment.pdf

For this course each student has the opportunity to be exempt from the final exam.

For the student to be exempt from the final exam she/he must:
- Be absent less than 10 classes in total for the semester (excused or unexcused)
- Achieve at least a 70% on each unit summative assessment
- Achieve at least a 70% on EQAO (marked by teacher)

When a student does not achieve a 70% or above on a unit summative assessment and still wants the opportunity to be exempt from their final exam, they must:
- attend 2 remediation sessions at lunch with their teacher following that particular summative
- possibly write a make-up summative assessment to demonstrate understanding
- possibly complete a review package at the end of the semester to demonstrate their understanding in the unit(s) that they did not receive 70% or above in.

The remediation will cover content from the last assessment that the student did not receive a 70% on. The teacher will use EQAO material as often as possible to not only help the student gain understanding but also to help prepare them for the EQAO standardized test at the end of the semester.

Late Policy
Students are expected to complete all assigned work and submit it by the teacher's established due date. Every attempt will be made to encourage students to complete all assigned work on time so their grade represents their actual achievement. For late and missed summative assessments, please see the **Westside Students' Contract for Missing Evidence of Learning**.

Achievement Categories: Student learning is assessed and evaluated with respect to the following four categories of knowledge and skills.	**Knowledge and Understanding:** 25% **Thinking:** 25% **Communication:** 25% **Application:** 25%

	Term Work (70%)
Unit of Study	**Summative Evaluations**
Measurement	Unit Test
Algebra	Unit Test
Proportional Reasoning	Unit Test
Linear Relations	Unit Test & Assessment Task
Geometry	Unit Test
	Final Summative (30%)
Provincial EQAO Test	10%
Final Exam Project & Interview	20%

Students will have the opportunity to complete mastery quizzes throughout each unit which may lead to a reduced summative assessment.

Student Expectations

Every student enrolled in Mathematics at Westside is expected to:
- be prepared for class each and every day. This means you bring a writing utensil, calculator and paper with you to class
- actively participate in class discussions
- be on time to class
- complete homework assigned
- learn to problem solve using the techniques you will learn in class

Final Assessments/Examinations

Culminating activities for each unit must be completed by the student in order to achieve the credit. Failure to complete any one of them may result in loss of credit.

There are no extensions or exemptions for final assessments without the approval from an administrator or the student has met the required conditions for exemption as stated above.