Thames Valley District School Board
College Avenue Secondary School

Course Overview: 2006-2007

Course Name: Principles of Mathematics **Course Code:** MFM 1P1

Course Type: Applied **Grade**: 9 **Credit Value:** 1.0

Teacher: Dr. Jacobson, Mrs. Schaefer

Ministry Guidelines: **The Ontario Curriculum, Grades 9 and 10, Mathematics, 2005**

Textbooks: Wookbook Grade 9 Applied (Ontario Ministry of Education) (recommended to be purchased for $10) and additional material to be assigned

Required Supplies: - these must be brought to every class

- Notebook (3-ring binder) with adequate lined paper and graph paper
- ***Scientific* Calculator** (must be capable of calculations involving exponents, roots, and trig)
- Pencils, pens, eraser, ruler and protractor

Topics and Time Allocations:Topics and Time Allocations:

Unit #	Unit Title By the end of the course students will	Approximate Number of 75 Minute Periods
1	Number Sense and Algebra • solve problems involving proportional reasoning; • simply numerical and polynomial expressions in one variable, and solve simple first-degree equations;	28
2	Linear Relationships • 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;	30
3	Measurement and Geometry • 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	25
4	Review and Final Summative Assessment	10

Assessment and Evaluation Strategies:

Assessment and evaluation will be based on the provincial curriculum expectations and the achievement levels as outlined in the curriculum policy document The Ontario Curriculum, Grades 9 and 10, Mathematics, 2005. Students will be provided with numerous and varied opportunities to demonstrate their achievement of the expectations across the four Achievement Chart Categories: Knowledge, Thinking, Communicaton and Application. The descriptions of achievement at **Level 3** reflect the **provincial standard** for student achievement. Assessment, throughout the course, may include quizzes, tests, assignments, performance tasks, reports, journals, portfolios, presentations and student-teacher conferences. The final summative assessment will include a summative performance activity and a pencil and paper final examination.

Evaluation:

The final grade will be determined as follows:

- **Seventy per cent (70%)** of the grade will be based on in-class evaluations during the term
- **Thirty per cent (30%)** of the grade will be based on the final summative evaluation.

Evaluation of term work and the final summative assessment will reflect the following weighted distribution:

Category of Achievement Chart	**%**
Knowledge and Understanding	35
Thinking	15
Communication	15
Application	35

Assignments and Tests:

- Each student requires a student planner or calendar for the year. Notice of assignments and tests will be given in advance. Students are responsible for recording due dates of assignments and tests. Quizzes covering recent work may be unannounced.
- Students are responsible for obtaining information about classwork, assignments or tests should they be absent for any reason.
- Student presentations must be completed on the date specified. **(No exceptions)**

Late Work/Missed Evaluation Policy:

- Any work not submitted on the due date shall be accepted for evaluation up to the class where this assignment is returned to students marked. The work after this class will not be graded by the teacher.
- Students must provide the school with an advance notice and supporting documentation for any missed in-class assessment for legitimate reasons. Parents and/or guardians must indicate when they contact the school that they are aware that their child is going to miss a test or other assessment. The student will be expected to complete the assessment on the day they return to class. In the case of extended legitimate absences, the value of the final examination may be increased if the assessment cannot be completed within a reasonable time. Incomplete or missed work may result in failure to meet the course expectations.
- Absence from an assessment due to truancy will result in a mark of zero for that assessment. **Failure to meet the overall expectations of the course results in a failing grade.**

Academic Dishonesty:

Academic Dishonesty is a serious offence. Cheating, borrowing without permission, copying and other types of plagiarism are all a form of theft, where someone is intentionally using and/or presenting another person's words or ideas as a student's own original work. Presenting altered or made-up results of investigations is another form of academic dishonesty. All academic dishonesty is absolutely unacceptable and may result in serious consequences.

A MARK OF ZERO, REMOVAL FROM THE COURSE and/or **NOTIFICATION OF PARENTS or GUARDIANS** or other such penalty may be imposed **Academic Dishonesty:**

Students are expected to come to each class with their calculator and all other required materials. They should have attempted all the homework, have a willingness to cooperate in maintaining a good learning environment, and to try their best. Students are required to keep work up to date. Students should arrange to have work sent home if they are going to be absent for more than two days. **Students should ask questions frequently and seek extra help as soon as problems arise. DO NOT GET BEHIND IN THIS COURSE.**

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Signature of Student **Signature of Parent/Guardian**