|  |
| --- |
| **General Course Information**  |
| Prerequisite: |  |
| Teacher: | (416-395-3140 Ext 20080) |
| Department: | Mathematics |
|  |  |
| Extra Help: | By appointment: Before school, lunch and after school |
| Textbook and Replacement Cost: | Pearson Mathematics 9 – Pearson, $90 |
| Material Required: | 3-ring binder, calculator, ruler, pencil, graph paper |
|  |  |
|  |  |
| **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. Further information about this course can be found at the Ontario Ministry of Education Website: http://www.edu.gov.on.ca/eng/curriculum/secondary/math910curr.pdf |
|  |
| **Assessment and Evaluation** |
| To promote student success, ongoing assessment and feedback will be given regularly to the students. A variety of assessment and evaluation strategies will be used in this course, including tests, quizzes, group work, and presentations. Expectations will be evaluated based on the provincial curriculum expectations and the achievement levels outlined in the ministry document.Expectations are organized into four categories of knowledge and skills. The categories and their corresponding weighting is as follows:

|  |  |
| --- | --- |
| Knowledge and Understanding | 20 - 35% |
| Thinking | 15 - 25% |
| Communication | 15 - 30% |
| Application | 15 - 25% |

Each student’s final mark will be in the form of a percentage grade based on their achievement in the 4 categories on the achievement chart. The breakdown of the final mark is as followed:

|  |  |
| --- | --- |
| Term Evaluation | 70% |
| Final Evaluation | 20% |
| EQAO | 10% |

The final Evaluation will be completed during the final 6 weeks of the course and may include a variety of summative activities including an exam, a presentation, a seminar, or an essay or another writing assignment.In addition to students’ performance in the achievement categories, students will also be assessed on their performance in the following learning skills:* Responsibility
* Organization
* Independent Work
* Collaboration
* Initiative
* Self-Regulation

For specific policies on assessment and evaluation, and academic honesty, please refer to *School Procedure*s in the student agenda. |

**Overall Expectations:**

* 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