## Course Profile

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### Course Description:

This course enables students to consolidate, and continue to develop, an understanding of mathematical concepts related to number sense and operations, algebra, measurement, geometry, data, probability, and financial literacy. Students will use mathematical processes, mathematical modelling, and coding to make sense of the mathematics they are learning and to apply their understanding to culturally responsive and relevant real-world situations. Students will continue to enhance their mathematical reasoning skills, including proportional reasoning, spatial reasoning, and algebraic reasoning, as they solve problems and communicate their thinking.

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### Resources:

- Growing Success: Assessment, Evaluation and Reporting in Ontario Schools, 2010

- The Ontario Curriculum, MTH1W 2021

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### Course Evaluation: Student Evaluation consists of three components…

**1) Learning Skills & Work Habits:**

Students are evaluated on 6 Learning Skills & Work Habits. They are:

- Responsibility
- Organization
- Independent Work
- Collaboration
- Initiative
- Self-Regulation

These six attributes are evaluated on a scale of Excellent (E), Good (G), Satisfactory (S) & Needs Improvement (N) and reported on the report card. They **are not** included in the course mark, unless specified in the curriculum expectations.

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**2) Term Mark (Assessment of Learning):**

Student performance standards for knowledge and skills are described in the curriculum Achievement Chart. The curriculum is assessed in four :

| | |
|---|---|
| ● Knowledge | 21% |
| ● Communication | 14% |
| ● Thinking | 14% |
| ● Application | 21% |

Evaluation of these four generates the term mark. The term mark accounts for 70% of the final mark.

**It is the student's responsibility to submit evidence of learning.**

**3) Final Evaluation (Assessment of Learning):**

The final evaluation, administered at or towards the end of the course is based on the evidence shown to the right. The final evaluation accounts for 30% of the final mark.

The final evaluation consists of (out of 30%):

| | |
|---|---|
| Examination/Culminating | 30% |

**Final Mark** = 70% Term Mark + 30% Final Evaluation

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**Please retain this page for future reference.**

## Course Profile

| | Unit | Description | Length | Evaluation | |
|---|---|---|---|---|---|
| **Course Outline:** | | | **Approximate** | **Major Unit** | |
| | **Unit** | **Description** | **Length** | **Evaluation** | |
| | Social/Emotional Learning | Students will develop and explore a variety of social-emotional learning skills in a context that supports and reflects this learning in connection with the expectations across all other strands | Throughout course | N/A | |
| | Mathematical Thinking & Making Connections | Students will apply the mathematical processes to develop a conceptual understanding of, and procedural fluency with, the mathematics they are learning. They will make connections between mathematics and various knowledge systems, their lived experiences, and various real-life applications of mathematics, including careers | Throughout course | Varying Evaluations Throughout Course | |
| | 1. Algebra | In this unit students will gain an understanding of the development and use of numbers, make connections between sets of numbers,and represent numbers in various ways. Students will learn how to evaluate powers, and simplify expressions. | 10 days (modified semester with classes of 2.5 hours) | Unit Tasks/Test | |
| | 2. Solving Equations | Students will create and solve equations for various contexts, and verify their solutions | 10 days (modified semester with classes of 2.5 hours) | Unit Tasks/Test | |
| | 3. Data Management Linear relations | Students will learn to describe the collection and use of data, and represent and analyse data involving one and two variables. Students will represent and compare linear and non-linear relations that model real-life situations, and use these representations to make predictions. | 10 days (modified semester with classes of 2.5 hours) | Unit Tasks/Test | |
| | 4. Equations of a Line | Students will demonstrate an understanding of the characteristics of various representations of linear and non-linear relations, using tools, including coding when appropriate. | 5 days (modified semester with classes of 2.5 hours) | Unit Tasks/Test | |
| | 5. Measurement | Students will demonstrate an understanding of the development and use of geometric and measurement relationships, and apply these relationships to solve problems, including problems involving real-life situations | 5 days (modified semester with classes of 2.5 hours) | Unit Test/Test | |
| | Personal Finance | Personal finance will be embedded into the other units taught in this course.Students will demonstrate the knowledge and skills needed to make informed financial decisions. | | Unit Tasks/Test | |
| **Note: The order of the units of study may change due to student needs and resources available during the course.** | | | | | |

## General Information

Refer to the agenda for Wexford CSA Academic Conduct & Evaluation policies.

How to seek extra help:
1)      Speak to your subject teacher and book a time to meet (Students & Parents).
2)      Speak to a Peer Helper
3)      Use the reliable sources on the Internet.
4)      Homework Help (Grades 7 – 10): http://homeworkhelp.ilc.org
5)      Speak to your Guidance Counsellor (Students & Parents) who can guide you to other sources.


Recommended Websites:
 - www.Khanacademy.org
 - www.resources.elearningontario.ca
 - www.explorelearning.com
 - www.math.com
 - ca.ixl.com
 - https://cemc.uwaterloo.ca/resources/courseware/grade-9-10-11.html


Homework is assigned on a regular basis. Homework completion and regular attendance are key to being successful in this course.