



# GEORGE S. HENRY ACADEMY COURSE OUTLINE



## MPM 1D1

<b>COURSE CODE</b>	MPM 1D1	<b>GRADE</b>	9
<b>TEACHER(S)</b>	Mr. Krasnewych	<b>CREDIT VALUE</b>	1.0
<b>DEPARTMENT</b>	MATHEMATICS	<b>PREREQUISITE</b>	none

<b>COURSE DESCRIPTION:</b>	<p>This course enables students to develop generalizations of mathematical ideas and methods through the exploration of applications, the effective use of technology, and abstract reasoning. Students will investigate relationships to develop equations of straight lines in analytic geometry, explore relationships between volume and surface area of objects in measurement, and apply extended algebraic skills in problem solving. Students will engage in abstract extensions of core learning that will deepen their mathematical knowledge and enrich their understanding.</p> <p>Additional information can be found at: <a href="http://www.edu.gov.on.ca/eng/curriculum/secondary/subjects.html">http://www.edu.gov.on.ca/eng/curriculum/secondary/subjects.html</a></p>
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<b>COMMUNICATION</b>
Please direct all questions or concerns regarding student progress or program of study Ms. S. Mah. Please call the main office to leave a message at 416-395-3240, ext. 20130.

<b>CONCRETE LEARNING RESOURCES</b>	<b>DIGITAL LEARNING RESOURCES</b>
<i>Principles of Mathematics 9</i> (\$100)	Google Classroom

<b>GEORGE S. HENRY ACADEMY'S COURSE WORK POLICY</b>
<p>For each evaluation, the teacher will inform students of the <b>due date</b> and the <b>ultimate deadline</b>. The ultimate deadline is the last opportunity for students to submit an assignment for evaluation. Teachers may also use a variety of other methods for dealing with late and missed assignments at their discretion.</p> <p><b>Strategies to assist students in meeting deadlines include:</b></p> <ul style="list-style-type: none"> <li>• Peer tutoring</li> <li>• Using the school app</li> <li>• Using a personal agenda</li> <li>• Seeking extra help from teachers</li> <li>• Requesting for assistance with time management and organizational skills</li> <li>• Getting help from parents/guardians</li> <li>• Getting help from a caring adult in the school</li> </ul>

<b>ASSESSMENT AND EVALUATION OF STUDENT ACHIEVEMENT</b>
<p>Each course follows an achievement chart which enables teachers to make judgements about student work that are based on clear performance standards and on a body of evidence collected over time. These include varied types: quizzes, descriptive feedback, labs, assignments, group work, tests, presentations, and examinations.</p> <p>Additional information can be found on the Ministry of Education website noted within the course description.</p>

<b>ACHIEVEMENT CHART CATEGORIES</b>
<b>Knowledge and Understanding (K &amp; U):</b> Math content acquired in each course (knowledge), and the comprehension

of its meaning and significance (understanding)
<b>Thinking (T):</b> The use of critical and creative thinking skills and/or processes
<b>Communication (C):</b> The conveying of meaning through various forms
<b>Application (A):</b> The use of knowledge and skills to make connections within and between various contexts

<b>COURSE WORK (70% of your overall grade)</b>		
<b>Categories</b>	<b>%</b>	<b>Possible Assessments of Learning</b>
<b>K &amp; U</b>	<b>20</b>	<b>Knowledge of content</b> <i>Ex. facts, terms, procedural skills, use of tools</i> <b>Understanding of content</b> <i>Ex. Understanding of mathematical concepts</i>
<b>T</b>	<b>15</b>	<b>Use of planning skills</b> <i>Ex. understanding the problem (e.g., formulating and interpreting the problem, making conjectures) – making a plan for solving the problem</i> <b>Use of processing skills</b> <i>Ex. carrying out a plan (e.g., collecting data, questioning, testing, revising, modelling, solving, inferring, forming conclusions) – looking back at the solution (e.g., evaluating reasonableness, making convincing arguments, reasoning, justifying, proving, reflecting)</i> <b>Use of critical/creative thinking processes</b> <i>Ex. problem solving, inquiry</i>
<b>C</b>	<b>15</b>	<b>Expression and organization of ideas and information</b> <i>Ex. clarity of expression, logical organization, using oral, visual, and written forms (e.g., pictorial, graphic, dynamic, numeric, algebraic forms; concrete materials)</i> <b>Communication for different audiences and purposes</b> <i>Ex. Present to peers, teachers; presenting data, justifying a solution, expressing a mathematical argument, in oral, visual, and written forms</i> <b>Use of conventions</b> <i>Ex. terms, symbols in oral, visual, and written forms</i>
<b>A</b>	<b>20</b>	<b>Application of knowledge and skills in familiar contexts</b> <i>Ex. Applying mathematical concepts to familiar settings</i> <b>Transfer of knowledge and skills to new contexts</b> <i>Ex. Applying mathematical concepts to unfamiliar settings such as word problems</i> <b>Making connections within and between various contexts</b> <i>Ex. connections between concepts, representations, and forms within mathematics; connections involving use of prior knowledge and experience; connections between mathematics, other disciplines, and the real world</i>

<b>FINAL EVALUATION (30% of your overall grade)</b>		
<b>Type</b>	<b>Description</b>	<b>%</b>
Culminating Task(s)		10
EQAO	The EQAO is to be written in the final week of the semester. This test will count for 10% of the final grade.	10
Exam	Written exam during exam week	10

**UNITS OF STUDY/COURSE ROAD MAP (subject to change)**

Unit 1 – Basic Numeracy Review	10 periods
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Unit 2 – Powers and Polynomials	10 periods
Unit 3 – Relations	5 periods
Unit 4 – Equations	5 periods
Unit 5 – Linear Relations	10 periods
Unit 6 – Analytical Geometry	10 periods
Unit 7 – Measurement and Geometry	15 periods

### Final Evaluation

Culminating Activity	
Examination	

### GEORGE S. HENRY ACADEMY'S LATE & MISSED EVALUATION POLICY

It is the responsibility of the student to make arrangements with their teacher for any missed course material and/or assignments. Extenuating circumstances will be considered on a case-by-case basis.

### GEORGE S. HENRY ACADEMY'S ACADEMIC DISHONESTY POLICY

Cheating and plagiarism will not be condoned. For more information, refer to the Academic Honesty Policy found in the Student Handbook. The Student Handbook can be found in the George S. Henry Academy app.

### SPECIALIST HIGH SKILLS MAJOR (SHSM) REQUIREMENTS

GRADE 11 AND 12 CREDITS	ENVIRONMENT	HEALTH & WELLNESS	HOSPITALITY & TOURISM
Major Credits	4	4	4
English ( <i>including a CLA*</i> )	2	1	1
Mathematics ( <i>including a CLA</i> )	1	1	1
Science or Social Sciences and Humanities ( <i>including a CLA</i> ) ( <i>May be substituted with 1 coop credit</i> )	-	1	-
Business Studies or Science ( <i>including a CLA</i> ) ( <i>May be substituted with 1 coop credit</i> )			1
Cooperative Education	2	2	2
<b>TOTAL</b>	<b>9</b>	<b>9</b>	<b>9</b>

\*Contextualized Learning Activity