


Course of Study

1. Course Details

<p>Lawrence Park C.I</p>  <p>TDSB</p>	<p>Teacher(s) : Chi Ho Faculty : Math</p> <p>Faculty Office Phone : 416-393-9500</p> <p>Name of ACL : Chi Ho</p> <p>ACL Contact : 416-393-9500 x 20080</p> <p>Textbooks : Applying the Concepts (McGraw-Hill)</p>	<p>Date revised : September, 2019</p> <p>Course Name : Grade 9 Applied Math</p> <p>Course Code : MFM1P1</p> <p>Prerequisite Course Code : None</p> <p>Credit Value : 1</p> <p>Essential Resource Materials :</p>
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2. Overall Goals

Overall Expectations:
By the end of this course students will:

Number Sense and Algebra

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.

Linear Relations

By the end of this course, students will:

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 representation.

Measurement and Geometry

By the end of this course, students will:

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.

SPECIFIC CURRICULUM EXPECTATIONS

Please refer to Ontario Ministry of Education curriculum document for details of Overall and Specific Expectations, found at <http://www.edu.gov.on.ca/eng/curriculum/secondary/math910curr.pdf>

3. Learning Skills and Work Habits

**Evaluated on Report Card as:
E (excellent); G (good); S (satisfactory); N (needs improvement)**

The Learning Skills demonstrated by a student in every course are evaluated in the following six categories: Responsibility, Organization, Independent Work, Collaboration, Initiative, and Self-regulation. The Learning Skills are evaluated using a four-point scale. The goal for each student is to improve Learning Skills which will translate into improved student's overall success.

In addition, completion of the assigned homework/assignments on time will contribute to student's success. We also know that regular attendance in all classes is essential for success; please avoid scheduling appointments during school time.

Students are expected to demonstrate academic honesty on all assignments, presentations, tests, and examinations. Student who cheat or plagiarize will receive a mark of zero for the assignment, presentation, test, or examination.

Responsibility	<p>The student:</p> <ul style="list-style-type: none"> • fulfils responsibilities and commitments within the learning environment; • completes and submits class work, homework, and assignments according to agreed-upon timelines; • takes responsibility for and manages own behaviour.
Organization	<p>The student:</p> <ul style="list-style-type: none"> • devises and follows a plan and process for completing work and tasks; • establishes priorities and manages time to complete tasks and achieve goals; • identifies, gathers, evaluates, and uses information, technology, and resources to complete tasks.
Independent Work	<p>The student:</p> <ul style="list-style-type: none"> • independently monitors, assesses, and revises plans to complete tasks and meet goals; • uses class time appropriately to complete tasks; • follows instructions with minimal supervision.
Collaboration	<p>The student:</p> <ul style="list-style-type: none"> • accepts various roles and an equitable share of work in a group; • responds positively to the ideas, opinions, values, and traditions of others; • builds healthy peer-to-peer relationships through personal and media-assisted interactions; • works with others to resolve conflicts and build consensus to achieve group goals; • shares information, resources, expertise and promotes critical thinking to solve problems and make decisions.
Initiative	<p>The student:</p> <ul style="list-style-type: none"> • looks for and acts on new ideas and opportunities for learning; • demonstrates the capacity for innovation and a willingness to take risks; • demonstrates curiosity and interest in learning; • approaches new tasks with a positive attitude; • recognizes and advocates appropriately for the rights of self and others.
Self-regulation	<p>The student:</p> <ul style="list-style-type: none"> • sets own individual goals and monitors progress towards achieving them • seeks clarification or assistance when needed • assesses and reflects critically on own strengths, needs, and interests; • identifies learning opportunities, choices, and strategies to meet personal goals.

4. Teaching/Assessment and Evaluation Strategies - Course Work (70%)

Students will demonstrate achievement of all the overall expectations of the course. Missed and/or incomplete assignments will have an impact on the final grade where there are a significant number of curriculum expectations that have not been evaluated because of missed assignments. Timelines and units may be adjusted to accommodate student needs.

Unit #	Culminating Tasks	Achievement Chart Focus	Time Line
1		Applying Number Sense	
2		Perimeter and Area Relationships	
3		Surface area and Volume Relationships	
4		Analysing Relationships with Data	
5		Exploring Integers and Rational Numbers	
6		Linear and Non-Linear Relations	
7		Analysing Linear Relations	
8		Applying Exponents	
9		Exploring Polynomials	
10		Modelling With Equations	
11		Proportional Reasoning	
12		Exploring Geometric Relationships	

4. Teaching/Assessment and Evaluation Strategies - Final Evaluation (30%)

All Students must take part in the culminating activities for each course at every grade level of study

Summative Tasks	Achievement Chart Focus	Weighting
1. EQAO	Summary of Skills learned throughout the course	10%
2. Final Exam	Summary of Skills learned throughout the course	20%

5. Achievement Chart

Achievement Categories For Course Work	Description	Weighting
Knowledge/Understanding	<ul style="list-style-type: none"> - knowledge of facts and terms - understanding concepts, principles, and theories - understanding of relationships between concepts 	35 % _____
Thinking	<ul style="list-style-type: none"> - critical thinking skills (analyzing, detecting bias) - creative thinking (problem solving) - inquiry skills (formulating questions; conducting research; analyzing, interpreting and evaluating information; drawing conclusions) 	15 % _____
Communication	<ul style="list-style-type: none"> - communication of information and ideas - use of visuals and technology - multimedia - oral communication (debates, discussions, listening skills, role-playing) - written communication (short essays, writing in role) 	15 % _____
Application	<ul style="list-style-type: none"> - application of concepts, skills, and procedures - transfer of concepts, skills, and procedures to new ideas - making logical conclusions or generalizations - making predictions and planning courses of action - making connections 	35 % _____

6. Term Grades for Provincial Reports

Term Grades for Provincial Reports throughout the Year

The grade for each term/reporting period is based on the evaluations that have been conducted to that point in the course and will be preliminary and tentative. They will be based on the most consistent level of achievement to that point in time, but some of the overall expectations, strands, and units will not have been addressed. The students' grades will most likely change when the students' entire work is evaluated by the end of the course.

Reporting cycle 1: September 3rd—November 5th (Report Card: November 14th)

Reporting cycle 2: November 6th—January 24th (Report Card: February 7th)

Reporting cycle 3: January 25th—March 31st (Report Card: April 9th)

Reporting cycle 4: April 1st—June 22nd (Final Report Card pick up: June 25th)

Exam Review Day: June 22nd (9-11 am only)

7. Communication

In addition to class time, students can receive additional assistance from:
Subject teachers before/after school, during lunch hour or by appointment.