

CLARKSON SECONDARY SCHOOL

Course Code: **MAT 2L0**

Course Name: **GRADE 10 ESSENTIALS**

Prerequisite:

Any Grade 9 Math course

Material Required:

Math Essentials 10
Student Workbook

Replacement cost: \$30

Course Description

This course emphasizes the extension of mathematical knowledge and skills to prepare students for success in their everyday lives, in the workplace, and in the Grade 11 and Grade 12 Mathematics Workplace Preparation courses. The course is organized by three major strands related to money sense, measurement, and proportional reasoning. In all strands, the focus is on strengthening and extending key foundational mathematical concepts and skills by solving authentic, everyday problems. Students have opportunities to extend their skills in reading, writing, and oral language through relevant and practical math activities, mostly from the supplied workbook.

Overall Course Expectations

By the end of the course students will:

1. solve problems drawn from everyday situations involving money, demonstrating skill and understanding in the use of decimal numbers.; communicate information about money sense; use literacy skills (reading, writing, listening and speaking) to extend their money sense.
2. make estimates and measurements to extend understanding of the metric system.; make estimates and measurements to extend understanding of the imperial system; solve problems involving measurements of circles, rectangles, cylinders, and rectangular prisms; communicate information about measurement concepts; use literacy skills (reading, writing, listening, and speaking) to extending understanding of measurement.
3. solve problems drawn from everyday situations, demonstrating skill and understanding in the use of fractions, percentages, ratios and rates; communicate information drawn from a variety of sources; use literacy skills (reading, writing, listening, and speaking) to extend understanding of proportional reasoning.

ASSESSMENT BREAKDOWN INCLUDING CATEGORIES AND WEIGHTINGS.

Formative assessments are learning practices that provide important feedback to student progress and include homework , checks, exit tickets, self assessments to name a few.

Summative assessments form the foundation for final mark allocation at the end of a unit, term and exam.

CATEGORIES	% WEIGHT OF FINAL GRADE
Knowledge	30%
Application	20%
Thinking	10%
Communication	10%
Term	70%
Culminating Task	30%
TOTAL	100

Unit	Unit Breakdown	Assessments
1. Working for Our Money	Earning, Place value and rounding, Percents, Commission earnings, Creating and interpreting graphs, Budgeting.	Workbook, and/or test, quizzes, assignments, group work
2. Spending Money	Estimating and calculating taxes, Discounts, Percents, Total price, Misleading graphs.	Workbook, and/or test, quizzes, assignments, group work
3. Linear Measurement: Metric	Measuring lengths, Estimating, Personal referents, Ratios, Scale diagrams.	Workbook, and/or test, quizzes, assignments, group work
4. Linear Measurement: Imperial	Measuring lengths, Equivalent fractions, Rounding, Converting units, Estimating, Personal referents, Scale diagrams.	Workbook, and/or test, quizzes, assignments, group work
5. Properties of Circles	Measuring circles, How are Circumference and Diameter Related?, Using Pi to calculate Circumference, Formulas for Circumference, Perimeter of composite shapes.	Workbook, and/or test, quizzes, assignments, group work
6. Circles and Angle	Fractions of circles, Measures of Angles, Drawing circle graphs, Reading circle graphs, Angles and Directions.	Workbook, and/or test, quizzes, assignments, group work
7. Getting the Right Mix	Ratios, Rates, Equivalent ratios, Line graphs, Solving proportions, Unit rates, Comparing rates.	Workbook, and/or test, quizzes, assignments, group work
8. Planning a Trip	Making a budget, Plan a trip.	Workbook, and/or test, quizzes, assignments, group work
9. Circles and Cylinders	Areas of a circle and circle sectors, Volume of rectangular prisms and cylinders, Problem solving with volume, Unit conversions.	Workbook, and/or test, quizzes, assignments, group work
10. Gardens, Patios, and Pools	Measuring Gardens, Planning Gardens and Patios, Shopping for Materials, Design your own garden.	Workbook, and/or test, quizzes, assignments, group work

LEARNING SKILLS Learning Skills will be reported on the student's report card. The following chart indicates the skills and look-fors for each student.

WORKS INDEPENDENTLY	TEAMWORK	ORGANIZATION	WORK HABITS/HOMEWORK	INITIATIVE	SELF-REGULATION
<p>The student:</p> <ul style="list-style-type: none"> ▪ accomplishes tasks independently ▪ accepts responsibility for accomplishing tasks ▪ follows instructions ▪ regularly completes assignments on time and with care ▪ uses time effectively 	<p>The student:</p> <ul style="list-style-type: none"> ▪ works willingly and cooperatively with others ▪ listens attentively, without interrupting ▪ takes responsibility for his/her share of the work to be done ▪ helps to motivate others, encouraging them to participate ▪ shows respect for the ideas and opinions of others 	<p>The student:</p> <ul style="list-style-type: none"> ▪ organizes work when faced with a number of tasks ▪ devises and follows a coherent plan to complete a task ▪ demonstrates ability to organize and manage information ▪ follows an effective process for inquiry and research 	<p>The student:</p> <ul style="list-style-type: none"> ▪ completes homework on time and with care ▪ follows directions ▪ shows attention to detail ▪ perseveres with complex projects that require sustained effort ▪ applies effective study practices 	<p>The student:</p> <ul style="list-style-type: none"> ▪ seeks out new opportunities for learning ▪ seeks necessary and additional information ▪ requires little prompting to complete a task, ▪ approaches new learning situations with confidence and a positive attitude ▪ seeks assistance when needed 	<p>The student:</p> <ul style="list-style-type: none"> ▪ sets individual goals and monitors own progress ▪ seeks clarification or assistance when needed ▪ reflects and assesses critically own strengths, needs and interests ▪ perseveres and makes an effort when responding to challenges

Additional Information:

- Students are reminded to have a scientific calculator, graphing paper and other appropriate materials for the course.
- Additional help is available through your teacher.
- Access to the Ontario Educational Resource Bank (OERB) is at <http://resources.elearningontario.ca/>
The login for use by the Peel District School Board's students is
Student Login: pdsbstudent
Student Password: oerbs
- Visit <http://www.khanacademy.org/> for mini lessons on topics covered in class.

Clarkson S.S. Assessment & Evaluation Policy

CHEATING:

Students are expected to demonstrate **HONESTY** and integrity and submit assessments that are reflective of their own work. Cheating is defined as completing an assessment in a dishonest way through improper access to the answers. Examples include, but are not limited to; using another student's work as your own, using an unauthorized reference sheet during an assessment, receiving / sending an electronic message to another student with test questions / answers, etc.

In order to ensure that all assessments are free from cheating,

Students will:

- review school policy with regards to academic honesty
- submit their own work for evaluation to show evidence of skill and knowledge
- use only teacher approved materials during an evaluation
- demonstrate the qualities of good character and good intention (honesty, caring, respectful, responsibility,) when preparing evidence of their learning.

If a student cheats on an assessment,

Students may be:

- required to complete an alternate evaluation under direct supervision in a timely manner
- required to write a reflective piece which demonstrates an understanding of the character attribute of honesty.
- assigned a mark deduction
- referred to a vice-principal
- assigned a zero.

Plagiarism:

Students are expected to demonstrate **HONESTY** and use proper citations and referencing when completing assessments. Plagiarism is defined as the unauthorized use or close imitation of the language and thoughts of another author and the representation of them as one's own original work. Examples include, but are not limited to; copying another's project (portions or whole) and paraphrasing parts of a book or article without reference or citation.

In order to ensure that all assessments are free from plagiarism,

Students will:

- Be required to complete a workshop in correct documentation
- produce their own work
- give credit through appropriate citations and referencing when quoting or paraphrasing the work of others
- be diligent in maintaining and protecting their own work
- seek clarification or assistance from teachers or other available resources

If an assessment is plagiarized,

Students may be:

- required to rewrite or resubmit all or parts of the assignment
- referred for remedial lessons on proper citation and references
- required to do a reflection on the character attribute of honesty
- referred to a vice-principal
- required to sign a contract with the administration and teacher about commitment to academic honesty
- assigned a zero.

LATE ASSIGNMENTS – assignments submitted after the due date and before the absolute deadline.

Students are expected to demonstrate **RESPONSIBILITY** and submit all assessments by the established due date. Students are responsible for providing evidence of their achievement of the overall course expectations within the time frame specified by the teacher and in a form approved by the teacher. There are consequences for not completing assignments for evaluation or for submitting those assignments late.

In order to ensure that all evaluations are submitted by the established due date,

Students will:

- record due dates in personal organizers
- consider other commitments including co-curricular activities in planning assignment completion
- negotiate alternate due date well before due date, not last minute (a minimum of 24 hours in advance or at teachers discretion)
- find out what they missed during absences
- use school support systems (i.e. special education, counselors, extra help, ...)

If an evaluation is submitted **after** the due date

Students :

- must notify the teacher and explain why the assignment was not submitted on the due date – in grades 9 & 10 a note from a parent/guardian may be required
- marks may be deducted for late assignments
- may be required to complete the assignment with supervision
- may be referred to a school based support team or a vice-principal
- may be placed on a contract for assignment completion

MISSED ASSIGNMENTS – assignments either not submitted or submitted after the absolute deadline

Excerpt from Policy 14.

In order to ensure that all evaluations are submitted,

Students will:

- be responsible for meeting and knowing absolute deadlines for missed assignments
- use personal organizers to manage time and meet deadlines
- be responsible for maintaining on- going communication with their teacher
- take responsibility for missed work during all absences

If an evaluation is submitted **after** the **absolute** deadline,

Students:

- must notify the teacher and explain why the assignment was not submitted
- students may be asked to provide a note from a parent/guardian
- may be required to complete the assignment or an alternate assignment under supervision
- may be referred to a school based support team or a vice-principal
- may be placed on a contract for assignment completion
- may be involved in an action plan to complete the required assignment within a given time frame
- may be assigned a zero.

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Parent/Guardian Signature

Student Signature

Date