



McCreary School  
Semester 1 – 2023/2024  
Mrs. Lockhart

**Grade 12  
Essential  
Math**

**COURSE DETAILS**

Course Code: 3000  
Course Name: Essential Math 30S  
Credit Value: 1.0  
Prerequisite: Essential Math 20S

Welcome to

# Essential Math

**CONTACT INFORMATION**

Room 14 McCreary School  
MS Teams: Grade 12 Essential  
Email: jlockhart@trsd.ca  
School phone: 835-2083

**COURSE TECHNOLOGY**

Office 365  
MS Teams: Grade 12 Essential

**COURSE TEXTBOOKS**

Mathematics for Apprenticeship and Workplace. Nelson Education Ltd. 2011.

MathWorks 12. Pacific Educational Press. 2011.

**SUPPLIES**

- 2" – 3 ring binder
- Loose leaf
- Graph paper
- Scientific calculator
- Ruler
- Pens, Pencils, Erasers
- Highlighters

Timeline	Unit & Topic
September	<b>Ch 5: Career Planning</b>
	Planning for your future
	<b>Ch 3: Statistics</b>
	Mean, median, mode, percentiles
October	<b>Ch 2: Measuring Instruments</b>
	Precision, accuracy, uncertainty, tolerance
November	<b>Ch 10: Probability</b>
	Experimental and theoretical probability, odds
	<b>Ch 7: Polygons</b>
December	Triangles, quadrilaterals, regular polygons
	<b>Ch 9: Trigonometry</b>
	Sine law and cosine law
	<b>Ch 1: Buying or Leasing a Vehicle</b>
January	Buying, leasing, leasing to buy
	<b>Ch 11: Owning a Home</b>
	Mortgages and homeowner costs
January	<b>Ch 6: Operating a Small Business</b>
	Expenses, sales, profit vs loss, taxes
	Career Life Project
	<b>Exam Review</b>
	<b>Provincial Exam</b>

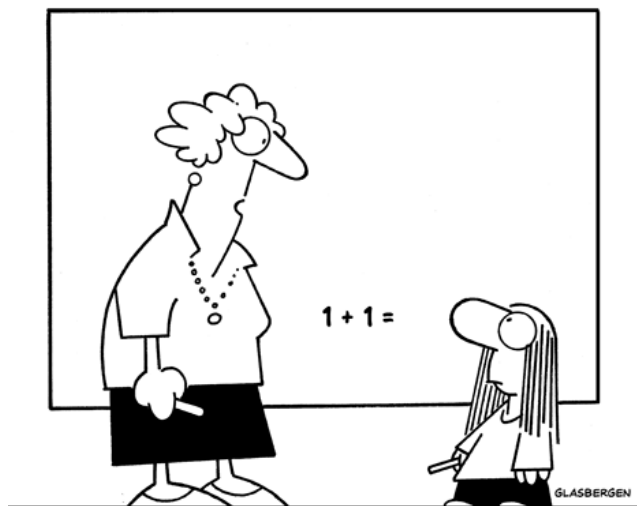
Mrs. Lockhart's school supplies are available in case you forget something. It is not meant to replace having your own. Please be sure to have a proper scientific calculator, ruler and protractor ASAP. You will not be allowed to use your phone as a calculator during tests.

## UNIFYING CONCEPTS & GENERAL OUTCOMES

Grade 12 Essentials Mathematics (40S) demonstrates how to use mathematics in everyday life. You will be exposed to applications that you will likely encounter in your day-to-day life perhaps now and definitely in the future.

The main goals of mathematics education are to prepare you to:

1. Solve problems
2. Communicate and reason mathematically
3. Make connections between mathematics and its applications
4. Become mathematically literate
5. Appreciate and value mathematics
6. Make informed decisions as contributors to society



“Yes, this will be useful to you later in life.”

## RULES & EXPECTATIONS

### ➤ Daily Classroom Expectations

Show up to class on time, with all your supplies, and use class time effectively. Take responsibility for your learning by completing all assigned work and being proactive rather than reactive.

### ➤ Technology in the Classroom

Technology will be an integral part of the functionality of the classroom. Students will have access to the school laptops, but are encouraged to bring their own device. Improper use may result in a loss of certain privileges.

### ➤ Student Lates & Absences

Students who are late for class are asked to come in quietly without causing a disruption. Students who make a habit out of being late may not be allowed into the room if class has already begun.

If you are absent, YOU are responsible for finding out what you missed and making up all missed work. If you have an excused absence for the day of a test, please make arrangements to write it the day you return to school. If you skip a test or quiz you will receive a zero.

### ➤ Academic Dishonesty

Academic dishonesty including (but not limited to) inappropriate collaboration, cheating, or plagiarism is a severe offence and will be dealt with according to the policy outlined in the school handbook.

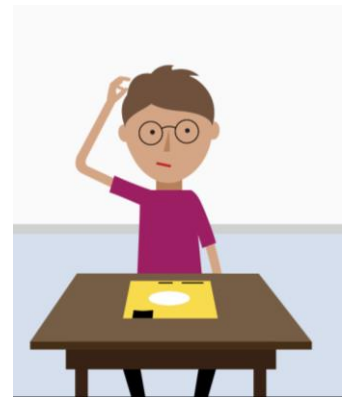
### ➤ Extra help

Arrangements can be made for in person extra help before or after school or during lunch hour. Students can also ask for clarification or feedback via email, MS Teams chat or discussion post, or schedule a Teams meeting.

## ASSESSMENT

### ➤ Homework

You won't have homework every night, but when it is assigned it is expected to be completed on time. Being a split class means we need to maximize our time together. In order to get the greatest benefit from scheduled direct instruction, students need to be prepared, which means having assigned work completed.



### ➤ Textbook Assignments

It is expected that all students use class time wisely and complete all assignments on time. A lot of the work students complete will not be graded, but that does not mean that it's not important. These practice opportunities are meant to help both the student and the teacher assess whether or not the student has developed an appropriate level of understanding prior to being given a summative assessment which will contribute to the final grade.

### ➤ Outcome Assessments

Students will be given 8 outcome assessments throughout the course. These assessments are open book and students will be given some class time to complete each, but they may also be completed at home. Each assessment is to be completed within ONE WEEK of the corresponding chapter test(s).

### ➤ Incomplete and Late Work

Work is to be completed on time and to the best of the student's ability. Late or missing assignments will be penalized as outlined in the school student handbook, "Upon teacher discretion a maximum of 5% may be deducted for every day the assignment is not turned in. If the assignment is not turned in after two weeks or at the start of a new unit, the assignment will receive a mark of zero."

### ➤ Chapter Tests

There will be 8 chapter tests throughout the semester. Students are allowed a personalized study sheet for each chapter test. The study sheet is to be a maximum of one side of a HALF of 8.5" x 11" paper.

### ➤ Test Re-writes

A student may request a test re-write for one of the 8 chapter tests. In order for a student to be eligible for a re-write they are required to complete the "Request to Retest" form. If a re-write is done, the new mark replaces the old mark (for better or worse).

### ➤ Career Life Project

Students will complete a Career Life Project as outlined by curriculum outcome 12E5.C.1. This project will begin within the first few weeks of the course and will be worked on throughout the semester. Projects will be due in the final week of class.

### ➤ Final Exam

All students will be required to write the provincial exam on January 24<sup>th</sup>. The final exam is worth 20% of the student's overall grade. Students are expected to create their own one-page, double-sided 8.5"x11" study sheet for the exam.

Assessment Category	Assessment Item	Category Weight
<b>Career Life Project</b>	Introduction Self-Assessment Career Description Education/Training Requirements and Budget Expected Lifestyle and Budget Resume Conclusion Bibliography (Works Cited)	10%
<b>Outcome Assessments</b>	Statistics Precision Measurement Probability Polygons Trigonometry Vehicle Finance Home Finance Analysis of Games and Numbers	25%
<b>Chapter Tests</b>	Ch 3: Statistics Ch 2: Measurement Instruments Ch 10: Probability Ch 7: Polygons Ch 9: Trigonometry Ch 1: Buying or Leasing a Vehicle Ch 11: Owning a Home Ch 6: Operating a Business	45%
<b>Provincial Exam</b>	The final exam will take place on January 24 <sup>th</sup> . The details of the exam will be provided at a later date.	20%

### Behaviour Assessment

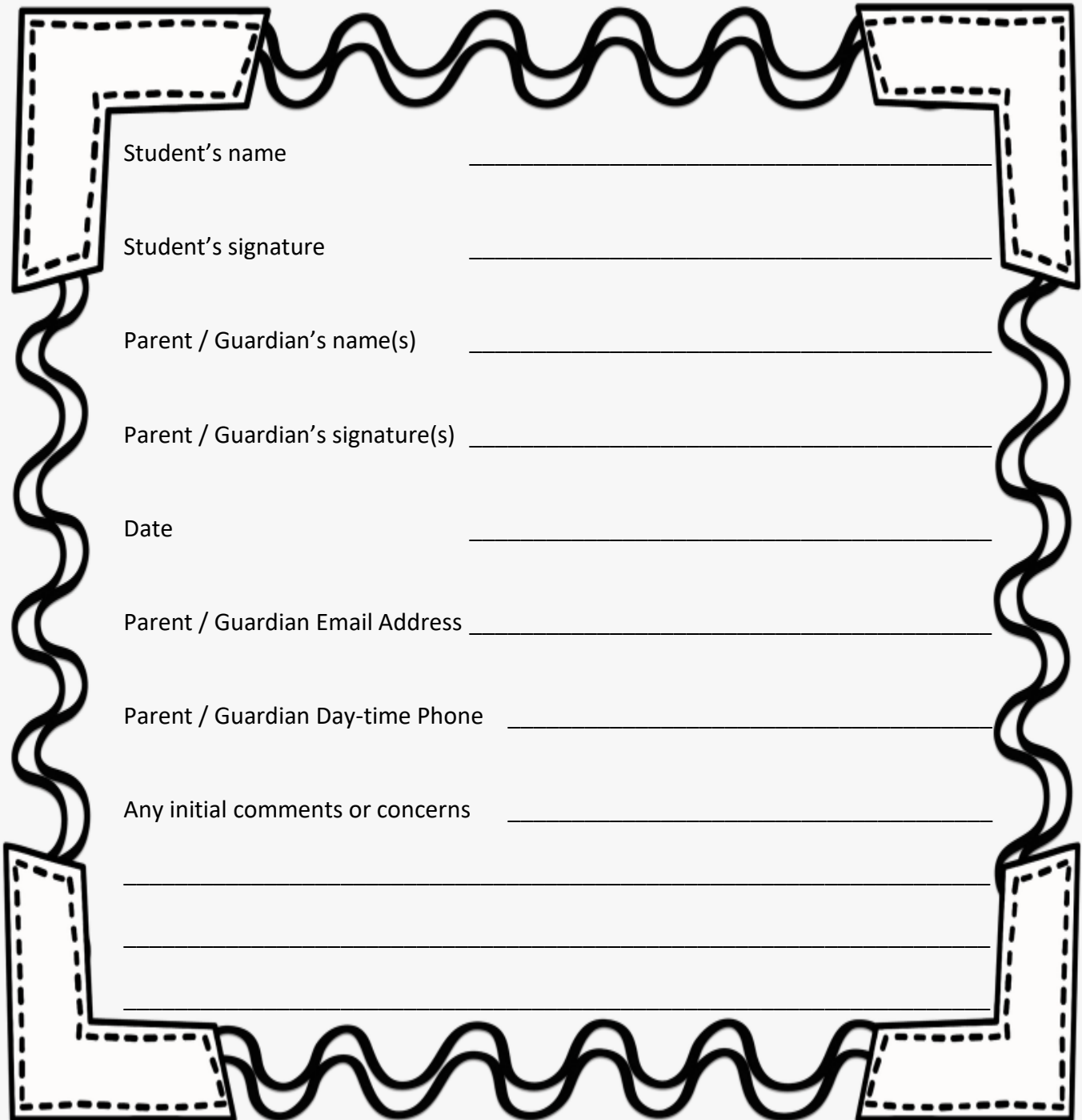
- **Personal Management Skills** - The student self-monitors own behaviors and personal growth, organizes for learning, contributes positively to the learning process and takes responsibility for work completion.
- **Active Participation in Learning** - The student participates actively in learning, is curious, sets learning goals, self-assesses, provides feedback, and uses feedback for improvement.
- **Social Responsibility** - The student demonstrates citizenship and social skills that contribute to making the classroom, school, and larger community a positive, safe and caring environment.



## Essential Math 40S - A Letter to Parents

Students are encouraged to speak to me directly as soon as any questions, concerns or problems arise. Parents are also encouraged to call or email anytime you'd like to express concern or request information regarding your child's progress in the course. On that note, there may be times when I have a concern that I would like to address prior to the next report card or progress report and email is the easiest way for me to do this. If possible, please provide me with your email address below. If you do not have an email, please provide a phone number that could be used to reach you during the day. I'm looking forward to a great year.

Mrs. Lockhart



Student's name \_\_\_\_\_

Student's signature \_\_\_\_\_

Parent / Guardian's name(s) \_\_\_\_\_

Parent / Guardian's signature(s) \_\_\_\_\_

Date \_\_\_\_\_

Parent / Guardian Email Address \_\_\_\_\_

Parent / Guardian Day-time Phone \_\_\_\_\_

Any initial comments or concerns \_\_\_\_\_

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