

McCreary School  
Semester 2– 2023/2024  
Mrs. Lockhart

Grade 11  
Pre-Calculus  
Math

**COURSE DETAILS**

Course Code: 3939  
Course Name: Pre-Calculus 30S  
Credit Value: 1.0  
Prerequisite: Intro to Applied & Pre-Calculus Math 20S

Welcome to

# Pre-Calculus

**CONTACT INFORMATION**

Room 14 McCreary School  
MS Teams: Grade 11 PreCal  
Email: jlockhart@trsd.ca  
School phone: 835-2083

**COURSE TECHNOLOGY**

Office 365  
MS Teams: Grade 11 Pre-Cal  
Ti-83 Graphing Calculator

**COURSE TEXTBOOK**

Pre-Calculus 11. McGraw-Hill  
Ryerson. 2011

Timeline	Unit & Topic
February	Ch 1: Sequences and Series
	Ch 2: Trigonometry
March	Ch 3: Quadratic Functions
	Ch 4: Quadratic Equations
	<i>Spring Break</i>
April	Ch 5: Radical Expressions and Equations
	Ch 6: Rational Expressions and Equations
May	Ch 7: Absolute Value and Reciprocal Functions
	Ch 8: Systems of Equations
June	Ch 9: Linear and Quadratic Inequalities
	Exam Review
	Final Exam

**SUPPLIES**

- 2" – 3 ring binder
- Loose leaf
- Graph paper
- Scientific calculator
- Ruler
- Pens, pencils, erasers



We have class period 5 every day of the cycle. That totals 81 days (minus weather, sports, presentations etc). The 9 chapters in the textbook can be added up to 32 sections. If we average a day and a half per section, plus a review day and a test day for each chapter then we will have 5 days left at the end of the course to review for the final exam.

**ONCE YOU HAVE READ  
THROUGH THIS COURSE  
OUTLINE WITH YOUR CHILD  
PLEASE SIGN  
AND RETURN IT TO THE SCHOOL.**

## UNIFYING CONCEPTS & GENERAL OUTCOMES

Grade 11 Pre-Calculus Mathematics (30S) is designed for students who intend to study calculus and related mathematics as part of post-secondary education. It builds on the topics studied in Grade 10 Introduction to Applied and Pre-Calculus Mathematics and provides background knowledge and skills for Grade 12 Pre-Calculus Mathematics.

The course comprises a high-level study of theoretical mathematics with an emphasis on problem solving and mental mathematics. The topics include study of algebra, quadratic functions, reciprocal functions, and trigonometry.

## 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.

### ➤ Be Kind

Being that this is Mrs. Lockhart's second time teaching this course and first time as a split with the grade 12s, things may not always go as planned. Remember to be kind to others and support each other in this journey.

### ➤ 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.

### ➤ 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.

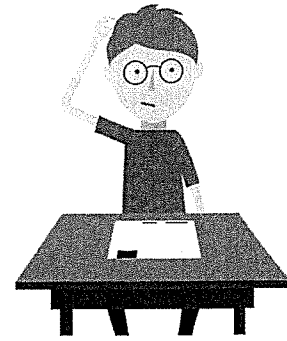
it  
ALWAYS  
SEEMS  
IMPOSSIBLE  
UNTIL  
DIT IS  
DONE.



## ASSESSMENT

### ➤ Homework

You won't have homework every night, but when it is assigned it is expected to be completed on time. 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 one outcome assessment per chapter. These assessments are open book and students will be given some class time to complete each, but they may also be completed at home.

### ➤ 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 8.5" x 11" paper.

### ➤ Test Re-writes

A student may request a test re-write for one of the 9 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).

### ➤ Optional Video Tutorial

In addition to the one re-test, students will have the option to replace one test score with a video tutorial project. The student will work with Mrs. Lockhart to create a video lesson that explains the rules/strategies involved in a concept as well as key examples.

### ➤ Collaborative Bulletin Board

Each student will be required to complete three posters for the collaborative bulletin board that will act as summary reviews for their assigned chapters.

### ➤ Final Exam

All students will be required to write the final exam in June. 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
Outcome Assessments	<p>Students will be assigned one outcome assessment per chapter.</p> <p>Each outcome assessment is to be completed within one week of the chapter test.</p> <p>All outcome assessments will be weighted equally.</p>	20%
Chapter Tests	<p>Students will be allowed a one-sided 8.5"x11" study sheet for each of the nine chapter tests.</p> <p>All tests will be weighted equally.</p> <p>If a student is unhappy with their test mark they can:            Complete one optional test re-write in June            Complete one optional video tutorial</p>	50%
Collaborative Bulletin Board	<p>Each student will be assigned three of the chapters from the course, for which they must create a poster summary.</p> <p>Each poster will be approximately <math>\frac{3}{4}</math> of a chart paper.</p> <p>Students must complete their final draft of their posters by June 10<sup>th</sup>.</p>	10%
Final Exam	<p>The final exam will take place in June.</p> <p>The details of the exam will be decided at a later date.</p>	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.

