



## I. Key Message/Expectations

Welcome! I am pleased to be your teacher and hope you enjoy learning about math as the year progresses. I am here to help you but it is my expectation that you come to class prepared and with a positive attitude and intention to learn.

The Mathematics 30–1 course contains topics and outcomes, as specified in the program of studies, that will provide students with the knowledge base, mathematical understandings, and critical-thinking skills identified for entry into post-secondary programs that **require the study of calculus**.

Attendance is one of the most important factors for academic success! It is expected that you come to class every day on time with the materials you require for class. If an absence is pre-planned please inform your teacher as early as possible so that materials can be provided. If unplanned, please inform the teacher either by email ([sinclairm@prsd.ab.ca](mailto:sinclairm@prsd.ab.ca)) or when back in school.

## II. Course Overview

The goal of the study of mathematics is for students to:

- Use mathematics confidently to solve problems
- Communicate and reason mathematically
- Appreciate and value mathematics
- Make connections between mathematics and its applications
- Commit themselves to lifelong learning
- Become mathematically literate adults, using mathematics to contribute to society.

## III. Materials

- Pre-Calculus 12 Workbook: Absolute Value Publications (1 copy supplied by GPS)
- TI 83/84/TI-nspire Graphing Calculator (supplied by student)
- Pencils, highlighters, erasers, etc.

## IV. Scope and Sequence

### Course Evaluation

**Course Work:** Unit Exams 80%, Quizzes and Assignments 20%

**Final Evaluation:** Course Work 70%, Diploma Exam 30%

*\*Please note this is an approximate timeline. Unit order and timeframe **may change** as needed\**

Unit	Tentative Exam Date	Weight of Coursework
Functions and Relations	September 13th	5%
Polynomial Functions and Equations	September 27th	10%
Transformations	October 11th	15%
Analyzing Radical and Rational Functions	October 25th	10%
Trigonometry - Functions and Graphs	November 8th	25%
Trigonometry - Equations and Identities	November 22nd	
Exponential and Logarithmic Functions Applications of Exponential and Logarithmic Function	December 13th	20%
Permutations & Combinations	January 10th	15%
Review	January	
Diploma	January 17th, 2025	

## V. Teaching Methodology

Students will be taught through a variety of different instructional methods and strategies including, but not limited to: direct teaching, cooperative learning, project-based learning, inquiry-based assignments, and technological means. Where appropriate, students may be allowed to use personal devices (see expectations in Student Handbook).

## VI. Assessment

Students will be assessed using both formative and summative assessments. Assessment is based around their most recent demonstration of the course material. Opportunities for rewrites will be available. In the event a student does not hand-in an assignment, a NHI (not handed in) will be assigned on PowerSchool until it is and parents/guardians will be notified.

Students and parents are encouraged to use the school website and PowerSchool to keep informed of marks, attendance, etc. This site will be updated regularly to give an accurate representation of each student's achievement to date.