Math 30-1

Math 30-1 is offered as an **independent learning** course at the Learning Centres. The teacher is accessible for support via email or by booking an appointment (phone, virtual meeting, in person) during our hours of operation. Before you ask for help on the assignment, be sure to review all available resources including the practice problems on the course Google Classroom.

Students will complete the course by working through modules. Modules are comprised of lessons which include various resources that allow the student to actively engage in the learning process. Course content and resources are provided online through the course website. Students require their unique **@edu.sturgeon.ab.ca** account for course completion.

Progression Through Course Sequences

The prerequisite for Math 30-1 is Math 20-1 or Math 30-2. Math 30-1 is a co-requisite for Mathematics 31. The Mathematics 30-1 course contains topics and outcomes 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. In Mathematics 30-1, algebraic, numerical, and graphical approaches are used to solve problems. Technology is used to enable students to explore and create patterns, examine relationships, test conjectures, and solve problems.

Module Topics and Evaluation

Math 30-1 is composed of three main topics: relations and functions, trigonometry, and permutations and combinations and the binomial theorem. Math 30-1 has 9 modules (units).

Module 1: Functions and Relations

Module 2: Transformations
Module 3: Exponential and Logarithmic Functions
Module 4: Applications of Exponential and Logarithmic Functions
Module 5: Polynomial Functions and Equations
Module 6: Permutations and Combinations
Module 7: Analyzing Radical and Rational Functions
Module 8: Trigonometry: Functions and Graphs
Module 9: Trigonometry: Equations and Identities

As this is a diploma exam course, for the 2023- 2024 school year, 70% of your **school awarded mark** will be combined with 30% of your diploma exam mark to calculate your final Math 30-1 mark.

School-Awarded Mark	Overall Weighting
Module Assignments	40%
Module Tests and Final Assessment	60%

Study Sheet
In addition to their formula sheet, students are permitted access to a single-sided, 8 ½ by 11 STUDY SHEET for each module test and the final assessment (**excludes the diploma exam**).

A schedule of module due dates will be set up with your teacher as part of your registration. Timelines vary from student to student, depending on when you start the course and how well you grasp the material presented. Keep in mind that in a typical high school classroom, students receive approximately 80 minutes of class time everyday for an entire semester.

Marks can be viewed on PowerSchool. Pay attention to comments included with your marks. This could mean there are things that your teacher would like to review with you before finalizing the mark on the assignment. Take the time to come see your teacher and discuss what must be completed or redone. Note: due to course deadlines, corrections will need to be completed in a timely manner as determined by you and your teacher.

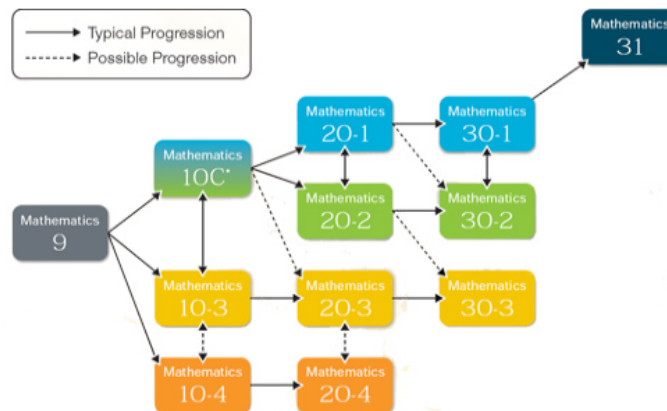## Accessing Content and Required Course Work

Modules are comprised of lessons which include various resources that allow you to actively engage in the learning process. Course content and resources are provided online through the Math 30-1 Google Classroom.

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An approved calculator (ie. a Ti-84) is required for this course.

Are you re-writing the diploma exam?

If you are rewriting the diploma a rewrite fee applies.Please see the LC staff regarding the due date for rewrite submission as it is early in the semester and you must register yourself to rewrite using MyPass.ca.

Additional Information and Expectations

All students and staff are expected to treat each other with respect. For more information, please refer to our website: www.sturgeonlearning.ca.