

# MATHEMATICS 10 COMBINED COURSE OUTLINE

## Goals

Mathematics 10 Combined is the starting point for the “-1” course sequence and the “-2” course sequence in the Alberta Education High School Mathematics Program. Each topic area requires that students develop a conceptual knowledge base and skill set that will be useful to whatever course sequence they have chosen. The topics covered within a course sequence are meant to build upon previous knowledge and to progress from simple to more complex conceptual understandings.

## Web Access

The course website should be accessed for course outlines and calendars.

<http://bertchurch.rockyview.ab.ca>

Students should access Moodle for all unit outlines, course material, and homework assignments.

<https://moodle.rockyview.ab.ca>

## Text

*Foundations & Pre-Calculus Mathematics 10*. Pearson. \$76.00

## Exam Policy

If a test is missed for an excused absence, an alternate test will be written when the student returns. If a unit test is missed for an unexcused absence, a mark of zero will be given. It is the responsibility of the student to be aware of test dates. All tests are secured and will remain in the classroom at all times.

## Absences

Regular attendance is critical to success in this course; absences may seriously affect your overall success. In the event of an excused absence, it is your responsibility to find out what must be completed and, with the teacher, determine a mutual agreed upon timeline for all missed work to be handed in for marking. “I didn’t know about it”, or “I wasn’t here” are not acceptable excuses.

If a Concept Check is missed for an excused absence, it can be written during Focus or TLB once you return to school.

If a Collaborative Problem Solving is missed for an excused absence, it will be written during Focus or TLB once you return.

However, you will need to complete this assignment independently unless there are other students who were absent that day.

## Opportunities for Replacement Marks

Concepts Checks may be rewritten during TLB or Focus only if you have done all homework practice problems and have complete, organized notes. Replacement Concepts Checks must be completed within the unit, before the unit test.

There will be a cumulative assignment and practice exam at the end of the course. These can replace your lowest Collaborative Problem Solving mark and lowest test mark respectively.

## Calculator Policy

Alberta Education requires that technology be used in order to achieve learner outcomes. **All Mathematics 10 Combined students must have their own graphing calculator to use in the classroom.** Only certain calculator models (accepted by Alberta Education) will be accepted for use on the final exam, and therefore will be best for this course. It is *strongly recommended* that students have a TI-83 PLUS or TI-84 PLUS graphing calculator. This is the calculator that will be used in teaching the course. Students will not be permitted to use calculator functions on cell phones or on any other electronic device.

## Required Materials

In addition to a graphing calculator, students will also require pencils, dry erase markers, an eraser, graph paper, and a ruler. All math work must be done in pencil. Work in pen will not be accepted.

## COURSE BREAKDOWN

Category	Percentage
Concept Check	14%
Collaborative Inquiry / Quiz	14%
Unit Test	42%
<b>Final Exam</b>	<b>30%</b>
<b>Total</b>	<b>100%</b>

## UNITS

1. Roots and Powers
2. Factors and Products
3. Relations and Functions / Linear Functions
4. Systems of Linear Equations
5. Trigonometry
6. Measurement

## **Appeal of Term or Final Mark**

It is the responsibility of the student to be aware of proper appeal procedures and timelines. That information can be found in the Student Handbook.