

MATERIAL COVERED

The Math 10 Applications course is divided into two main sections:

Shape and Space

- Measurement
- Trigonometry
- Line Segments

Patterns, Relations and Functions

- Number Patterns in Tables
- Relations and Functions
- Linear Functions

TEXTBOOK

The course uses the following:

Applied Mathematics 10

ISBN 0-201-39585-1, Addison-Wesley (Pearson Education)

OTHER RESOURCES REQUIRED

Students will need to use a micrometer, vernier caliper, ruler, meter or yard stick, and tape measure in Unit 1.

GRADING

This course works on a mastery system. You must pass the mastery tests in each unit to the 80% level before you can go on. In addition, there are cumulative tests from time to time. These are tests you can take only once, so studying before them is essential to do well. Your final mark for the course is based 60% on mastery tests and 40% on cumulative tests.

This course has a provincial exam that you must write. It is worth 20% of your final mark for the course. Be sure to ask your teacher for a practice exam, or download it yourself at <http://www.bced.gov.bc.ca/exams/search/> and choose Grade 10 as the grade level to search. You can also download the answer key there so you may mark your own work.

GOAL

The goal of this unit is to increase your skills making and estimating measurements in both the metric and imperial systems.

OBJECTIVES

While completing this unit you will investigate the following topics and practice

- Using measuring devices, and taking and estimating measurements
- Converting measurements from one system to another
- Describing the precision and accuracy of measuring tools
- Calculating the volume and surface area of a sphere
- Working with square and cube roots
- Enlarging and reducing figures

WHAT TO DO IN THIS UNIT

- This Unit uses **Chapter 1** in the *Applications of Mathematics 10* textbook.
- Read and do the Investigations and Examples at the beginning of each tutorial, then practice by doing the Questions on the pages in the table below. Be sure to tick off each section as you complete it.

Applications of Mathematics 10			
✓	Tutorial	Read and Do	Discussing the Ideas/Exercises
	1.1	Investigation 1 and 2	Questions 1–5, on p.7
	1.2	Investigation 1, 2, and 4	Questions 1–6, on p.13
	1.3	Investigation 1 and 2	Questions 2 and 3, on p. 19, 1–5 on p. 20
	1.4	Examples 1–3	Questions 1–5 on p. 25, 1–6 on p. 26
	1.5	Examples 1 and 2	Questions 1–5 on p. 34
	1.6	Example	Questions 1–6 on p.39
	1.7	Investigation	Questions 1–8 on p.44
	1.8	Investigation 1 and 2	Questions 1–8 on p.51

- When you are ready, ask your teacher for the Unit 1 Test. Remember, you must get 80% to pass, so studying hard is essential to do well.