

## CEMC COURSEWARE

<http://cemc.uwaterloo.ca/courseware/>



The CEMC courseware features lessons, interactive activities, enrichment challenges, and unlimited opportunity for practice with feedback. The courseware is online, free to use, and does not require registration. Start learning from a world-class group of educators today!

7  
8

GRADES 7/8  
MATHEMATICS

9  
10  
11

GRADES 9/10/11  
MATHEMATICS



GRADE 12  
ADVANCED FUNCTIONS  
AND PRE-CALCULUS



GRADE 12  
CALCULUS  
AND VECTORS



PROBLEM SOLVING AND  
MATHEMATICAL DISCOVERY



COMPUTER  
SCIENCE

## GRADES 9/10/11 MATHEMATICS COURSEWARE

The courseware includes all of the topics typically taught in Grades 9 to 11 across Canada and, in some instances, extends ideas beyond grade level. The courseware is organized into 7 strands. Each strand is subdivided into units, and each unit is further subdivided into lessons as well as enrichment challenges.

- ✓ Number Sense and Algebraic Expressions
- ✓ Linear Relations and Analytic Geometry
- ✓ Quadratic Relations
- ✓ Introduction to Functions
- ✓ Measurement, Geometry, and Trigonometry
- ✓ Sequences, Series, and Financial Literacy
- ✓ Exponential and Trigonometric Functions

## A TYPICAL LESSON

### Watch and Read

The mathematics to be learned is presented using narrated slideshows and text. This section may also contain:

#### Try This

A motivating question at the beginning of the lesson with the solution provided later on.

#### Explore This

A guided exploration to create or manipulate objects with a summary to consolidate observations.

#### Check Your Understanding

A question to answer with feedback and often an opportunity to try again with a different question for unlimited practice.

#### Take It With You

A question at the end of the lesson to motivate future learning without a provided answer or solution.

### Review

The questions and explorations are reproduced here for easy access.

### Practise

Paper and pencil exercises to practise the material. Answers are provided for each exercise and full solutions are available for even-numbered exercises.

## CURRICULUM MAPS

————— Search the courseware by curriculum expectation/outcome —————

<http://cemc.uwaterloo.ca/resources/courseware/grade-9-10-11-curriculum-maps.html>

## INTERACTIVE LIBRARY

————— Search the courseware by topic —————

<http://cemc.uwaterloo.ca/resources/courseware/grade-9-10-11-interactive-library.php>