

The Math 11 Competency Test covers the topics listed below. Once you have registered for a test, you will be emailed information about the Math 11 Companion course which will give you access to practice problems to prepare you for the test.

- Basic Arithmetic
  - Arithmetic Operations and order of operations (BEDMAS)
  - Rounding and working with exact and approximate numbers
- Basic Algebra
  - Evaluation of simple formula
  - Algebraic operations and simplification
  - Exponent laws
  - Unit conversion
- Algebraic Radicals
  - Multiplying and dividing square roots
  - Simplification of square roots
  - Rationalizing radical denominators
- Algebraic Fractions
  - Adding, subtracting, multiplying and dividing
  - Simplifying expressions involving algebraic fractions
- Variation and Proportion
  - Direct proportion or variation
  - Inverse proportion or variation
- Word Problems
  - Solving simple word problems involving money, percent, geometry ratios, variation, proportion, mixtures, uniform motion, etc.
  - Translating words into mathematical expressions
- Geometry
  - Working with basic geometric figures (rectangles, squares, triangle, polygons, circles, etc.)
  - Calculating perimeter and area of basic geometric shapes
  - Calculating volume and surface area of simple solid figures (rectangular boxes, spheres and cylinders)
  - Similar triangles

- Equations
  - Working with the rectangular coordinate system
  - Linear lines (slope, intercepts, finding equation)
  - Solving system of linear equations
  - Rearranging equations to solve for a different variable
- Trigonometry
  - Theorem of Pythagoras
  - Solving right triangles
  - Trigonometric ratios (sin, cos and tan)