

MyReadinessTest

Math Prep for Chemistry – Topics & Subtopics

Module 1: Mathematics (514 unique exercises)

- Multiplication and Division of Integers
- Simplifying a Fraction
- Equivalent Fractions
- Multiplying Fractions
- Reading and Writing Decimals
- Rounding decimals
- Adding and Subtracting Decimals
- Percent
- Exponents, Order of Operations, and Inequality

Module 2: Algebraic Expressions (271 unique exercises)

- The Product Rule and Power Rules for Exponents
- Integer Exponents and the Quotient Rule
- Evaluation of a polynomial in one variable
- Properties of Real Numbers
- Combining like terms
- Algebraic symbol manipulation
- Power rule: Positive exponents
- Power rule: Negative exponents
- Multiplying monomials
- Multiplying binomials

Module 3: Algebraic Equations (155 unique exercises)

- Solving a linear equation
- Solving a rational equation that simplifies to a linear equation

Module 4: Graphing (8 unique exercises)

- Graphing a line through a given point with a given slope
- Slope of a Line

Module 5: Geometry (39 unique exercises)

- Volume of a cube or a rectangular prism
- Circumference and area of a circle
- Volume of a sphere
- Volume of a cylinder

Module 6: Scientific Notation (255 unique exercises)

- Multiplication of a decimal by a power of ten
- Division of a decimal by a power of ten
- Converting between decimal numbers and numbers written in scientific notation
- Multiplying and dividing numbers written in scientific notation
- Calculating positive powers of scientific notation
- Finding negative powers of scientific notation

Module 7: SI Units (10 unique exercises))

- Interconverting temperatures in Celsius and Fahrenheit

Module 8: Measurement Math (25 unique exercises)

- Adding and subtracting simple units
- Multiplying and dividing simple units
- Powers and roots of powers of simple units
- Forming compound units
- Adding and subtracting compound units
- Multiplying and dividing compound units
- Powers and roots of compound units

Module 9: Measurement Uncertainty (10 unique exercises)

- Counting significant digits
- Rounding to a given significant digit
- Counting significant digits when measurements are added or subtracted
- Counting significant digits when measurements are multiplied or divided
- Adding, subtracting, multiplying and/or dividing measurements

Practice exercises are algorithmically-generated for virtually unlimited practice!