# **Unit 0 – Review: Basic Scientific Measurement and Problem Solving Techniques**

Learning Targets

|  **Objectives** |  |
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| 1. Recognize that instruments have a limit to their precision; relate the data recorded to the quality of the measurement.
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| 1. Demonstrate use of laboratory equipment to determine the mass, length and volume of various objects. Record the value of an object’s measurements in a manner consistent with the limit of precision of the equipment.
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| 1. Round off calculated values to the appropriate number of significant figures.
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| 1. Demonstrate use of scientific notation.
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| 1. Demonstrate use of graphing to evaluate laboratory data. Be able to determine independent and dependent variables. Be able to determine slope and equation of lines.
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| 1. Understand meaning of percent with regards to decimal, fractions and ratios
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| 1. Be able to use factor-label method to convert between metric units and proportional relationships
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