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

Learning Targets

| **Objectives** |  |
| --- | --- |
| 1. Recognize that instruments have a limit to their precision; relate the data recorded to the quality of the measurement. |  |
| 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. |  |
| 1. Round off calculated values to the appropriate number of significant figures. |  |
| 1. Demonstrate use of scientific notation. |  |
| 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. |  |
| 1. Understand meaning of percent with regards to decimal, fractions and ratios |  |
| 1. Be able to use factor-label method to convert between metric units and proportional relationships |  |