

BASIC CONCEPTS OF CHEMISTRY

Chapter 1

Chemistry and Measurements

Objectives:

- * Determine the number of significant figures and the degree of uncertainty in a measurement
- * Perform arithmetic operations and percent error calculations, rounding the answer to the correct number of significant figures
- * Perform arithmetic operations involving scientific notation
- * List several fundamental and derived units of measurement in the metric (SI) system
- * Interconvert measurements by dimensional analysis
- * Interconvert several key points on the Fahrenheit, Celcius, and Kelvin temperature scales