

## Chapter 3 Study Guide

### Topics

- A) Scientific notation
- B) Significant digits
- C) Metric and Nonmetric Conversion of units
- D) Graphing.

#### Topic A) Student will

Be able to convert from standard notation into scientific notation

$$- \quad 0.0042 \qquad 4.2 \times 10^{-3}$$

Be able to convert from scientific notation into standard notation

$$- \quad 3.45 \times 10^2 \qquad 345$$

Be able to use a calculator to + or -, multiply or divide, using scientific calculator.

#### Topic B) Students will

Be able to determine which digit is uncertain when measuring quantitative data

Be able to ID the number of significant digits a measurement has

Be able to add/subtract or multiply/ divide and correctly round the answer the the appropriate number of significant digits.

#### Topic C) Students will

Be able to convert units within the metric system using the decimal method. (I will give you a list of all the prefixes you need to know and their meanings)

Be able to convert units within the English system using the Factor Label Method. (I will give you any statements of equality you may need except for time)

Be able to calculate density or given density calculate volume or mass. (I will give you the formula for density)

#### Topic D) Students will

Be able to ID the independent and dependent variable

Know where the independent and dependent variable is placed on a graph

Be able to draw or interpret a graph correctly