

## Introduction to Chemistry “Chapter 1”

### Definition of Chemistry

The definition has to be able to encompass all that we will do this year.

**CHEMISTRY**: the study of matter and the changes that occur to that matter.

Note: the definition of chemistry has 2 important components!

What is this Matter stuff that we are talking about? (this is in chapter 3)

**MATTER**: anything that has mass and volume (takes up space)

Note: the definition of matter has 2 important components also!

See Scientific Method Handout for the steps of the scientific method.

More on the Experiment Process:

**CONTROL**: the status quo, what is unchanged, the normal or unaltered part of the experiment.

**INDEPENDENT VARIABLE**: the factor that is changed or altered

**DEPENDENT VARIABLE**: what is measured or evaluated to determine the influence of the independent variable on the situation.

Types of Data:

**QUALITATIVE DATA**: often sensory in nature, no numbers, tends to be more subjective

**QUANTITATIVE DATA**: measurement or a reading from a scientific instrument, numbers, tends to be less subjective

Humans add a factor of subjectivity to all data collected by them!