

## CHEM 105

### Module 1: Introduction to Chemistry and Matter

#### The Nature of Science and Chemistry

- Science: knowledge
  - Specifically, knowledge gained through experience or experiment – empirical knowledge.
  - Science is both an activity and the result of the activity.
- Chemistry: the study of matter and its interactions with other matter and with energy.

#### Chemistry is EVERYWHERE

- In the air we breathe.
- The food we eat.
- Colors we see.
- Fuels we use.
- Medicines we take.
- In all living organisms, like US.

#### What is Chemistry?

- The study of matter and the changes it can undergo.
  - o Matter is anything that has mass and occupies space.
- Chemistry plays an important central role in all of the natural sciences:
  - o Geology – Geo-chemistry
  - o Astronomy – Cosmo-chemistry
  - o Physics – Chemical physics
  - o Biology – biochemistry

#### The Scientific Method

- The scientific method is a list of techniques for investigating occurrences, acquiring new knowledge, or adjusting and integrating previous knowledge. This list includes:
  - o Observation- observe a phenomenon.
  - o Hypothesis- pose a question explaining the phenomenon.
  - o Experiments- run experiments to prove or disprove your hypothesis.
  - o Publication- allow outside reviews of your experiments.
  - o Confirmation- confirm your experimental results.
  - o Application - determine what scientific use your results have.

#### Types of Scientific Research

- Basic science- research without the goal of a practical application.
- Applied science- research with well-defined, short-term goals for a specific problem.
- Technology- application of science for industrial production and societal goals.

#### Types of Matter

- Macroscopic – large enough to be seen with the naked eye.
- Microscopic- seen only with the aid of a microscope.
- Submicroscopic- can only be observed indirectly.

#### Properties of Matter

- Mass is a measure of the amount or quantity of matter in an object.

# Introduction To Chemistry 105 Study Guide

**ML Yell**



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