

General Chemistry 101

Chapter 1: Introduction: Matter, Energy, & Measurement

1.1: The Study of Chemistry

- **CHEMISTRY** - the study of matter, its properties, & the changes that it undergoes
- **MATTER** is the physical material of the universe
- **PROPERTY** - any characteristic that allows us to recognize a specific type of matter & distinguish it from others
- All matter is comprised of various combinations of over 100 substances called **ELEMENTS**
- Chemistry gives a background for understanding the properties of matter in terms of **ATOMS**
 - Every element is made up of a unique kind of atom
- A group of joined atoms is called a **MOLECULE**
 - Even minor differences in a molecule's structure can cause noticeable changes in properties
- There are 2 realms of size that chemists think in:
 - Macroscopic Realm - ordinary-sized size objects
 - Submicroscopic Realm - atoms & molecules
- Chemistry is central to fundamentally understanding many science-related fields (interdisciplinary)

Chemistry - the study of matter, its properties, & the changes that it undergoes

Matter - Anything that occupies space and has mass; the physical material of the universe

Property - any characteristic that allows us to recognize a specific type of matter & distinguish it from others

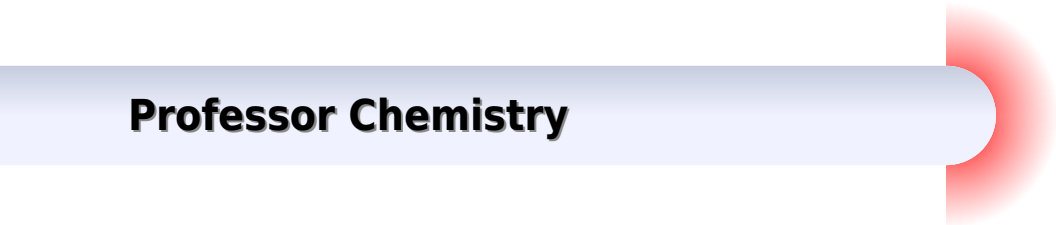
Element - A substance that cannot be decomposed into simpler substances

Atoms - the smallest building blocks of matter
Molecule - any characteristic that allows us to recognize a specific type of matter & distinguish it from others



Notes On General Chemistry

Professor Chemistry



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