

# PHYSICAL SCIENCE

## L1

### THE NATURE OF MATTER

#### ★ The Central Science

- Chemistry is the study of matter and changes it undergoes
  - Chemistry is a central science because it joins physics and mathematics, as well as biology and medicine
- History
  - Thales of Miletus believed that everything starts with water
  - Empedocles said that matter is made up of 4 elements
  - Aristotle popularized the idea that there are 4 elements
  - Leucippus and Democritus coined the word "atomos" or uncuttable
- Democritus
  - He postulated that all matter consists of very small, indivisible particles, which he named atomos
  - This belief was originally rejected by the people because people believed that matter was made up of the four elements
- John Dalton (Atomic Theory)

- Formulated the precise definition
- Based off from the Fundamental Laws of Chemistry

#### ★ Fundamental Laws of Chemistry

- Law of Conservation of Mass
  - States that in chemical reactions, the mass of the substances produced is equal to the mass of the substances reacted
  - $A + B \rightarrow C$  ( A & B are reactants and C is Product / Substance )
- Law of Definite Composition
  - States that in any sample of given compound will always be composed of the same elements in the same proportion by mass
- Law of Multiple Proportions
  - States that for elements to form compounds, the masses of the second element that can combine with a fixed mass of the first element are in the ratio of a small whole number

#### ★ Dalton's Atomic Theory

- Matter is made up of extremely small indivisible particles called atoms
  - Each element has a kind of atom and it is in the simplest form. It cannot be divided.

# First Course In Physical Science

**Yicheng Fang**



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