

POGIL: Atomic Models and the Development of the Atom

Background:

Models are used in science as a way to represent what we cannot see. They help us work with, visualize, and understand scientific concepts. However, models are constantly changing as we develop new technology and continue to make advancements. We are going to study the atom in this unit, and it is important to learn about the process of developing our most current model.

Model 1: Dalton

Dalton came up with the theory that described atoms in five postulates, meaning, a set of concepts or theories proposed by scientists. Dalton used experimentation to develop his postulates through testing gases. He first differentiated atoms via atomic weight. His data was flawed, however, but he is known as the father of atomic theory due to his immense strides in this topic. His five postulates are listed below:

1. All elements are composed of tiny indivisible particles called atoms that cannot be broken down further. *
2. Atoms of a given element are all similar in their physical and chemical properties. *
3. Atoms of different elements differ in their physical and chemical properties.
4. Atoms of different elements combine in the simple, whole number ratios to form compounds.
5. In chemical reactions, atoms are combined, separated, or rearranged, but never created, destroyed, or changed.

*Indicates that the postulate is still held as true today.

Dalton's model summarizes these principles by showing that an atom is made up of solid, indivisible particles. This was originally stated by Greek philosopher Democritus, and he called the indivisible particle *atomos* (which means indivisible). However, Democritus did not have any support for his claim.

Dalton's model of the atom:



Key Content Questions:

Pogil Atomic Models And The Development Of The Atom

Michal Rosen-Zvi



Pogil Atomic Models And The Development Of The Atom:

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