

# Atoms And Atomic Theory Study Guide Thoughtco

## Study Guide Chapter 4 Atomic Theory and The Atom

### Atoms And Atomic Theory Study

Protons and neutrons stick together to form the atomic nucleus. Electrons orbit around the nucleus. Chemical bonding and chemical reactions occur due to the electrons around atoms. An atom with too many or too few electrons is unstable and may bond with another atom to either share or essentially donate electrons.

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The modern atomic theory shows us that electrons do not travel in definite paths; instead, this is true. There are regions that exist within an atom where electrons are likely to exist Electrons...

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Development of atomic theory The concept of the atom that Western scientists accepted in broad outline from the 1600s until about 1900 originated with Greek philosophers in the 5th century bce . Their speculation about a hard, indivisible fundamental particle of nature was replaced slowly by a scientific theory supported by experiment and mathematical deduction.

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Dalton's Atomic Theory All matter is made of atoms, which can't be created, divided, or destroyed, atoms of the same element are identical, atoms of different elements are different, atoms join with other atoms to make new substances, however, not ALL of the theory are accurate.

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Dalton's Atomic Theory 1) each chemical element is composed of atoms, which can be neither created nor destroyed during a chemical change 2) all atoms of an element are alike in mass (weight) and other properties but the atoms of one element are different from those of all other elements

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Atoms are indivisible and indestructible (cannot be created nor destroyed). Postulate #2 of the Atomic Theory All atoms of a given element are identical in mass and properties.

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In the early 19th Century, John Dalton proposed his atomic theory: matter came in a variety of elements, and all the atoms of a given element were identical in mass and their other properties. These atoms couldn't be destroyed or created, only rearranged and combined in different ways.

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