

4 Atomic Structure



ELECTRONS AND THE STRUCTURE OF ATOMS

4.1 Defining the Atom



For students using the Foundation edition, assign problems 1, 3–7.

Essential Understanding

Atoms are the fundamental building blocks of matter.

Lesson Summary

Early Models of the Atom The scientific study of the atom began with John Dalton in the early 1800s.

- ▶ The ancient Greek Democritus first proposed that matter is made up of small, indivisible particles that he called atoms.
- ▶ John Dalton made the first accepted theory on atoms almost 2000 years after the work of Democritus.
- ▶ Dalton's atomic theory included that all atoms of an element are alike, the atoms of different elements are different, and atoms can combine to form compounds.

Sizing up the Atom Atoms are extremely small, but technology enables scientists to view atoms.

- ▶ An atom is the smallest part of an element that has the properties of that element.
- ▶ Individual atoms can be seen and even moved around using instruments such as scanning electron microscopes.

After reading Lesson 4.1, answer the following questions.

Early Models of the Atom

1. Democritus, who lived in Greece during the fourth century B.C., suggested that matter is made up of tiny particles that cannot be divided. He called these particles atoms.
2. List two reasons why the ideas of Democritus were not useful in a scientific sense.
They did not explain chemical behavior, and they lacked experimental support because Democritus's approach was not based on the scientific method.
3. The modern process of discovery about atoms began with the theories of an English schoolteacher named John Dalton.

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The School Science Review , 2001 **Tools For Chemical Product Design** Mariano Martín Martín, Mario R. Eden, Nishanth G. Chemmangattuvalappil, 2016-09-19 Tools for Chemical Product Design From Consumer Products to Biomedicine describes the challenges involved in systematic product design across a variety of industries and provides a comprehensive overview of mathematical tools aimed at the design of chemical products from molecular design to customer products Chemical product design has become increasingly important over the past decade and includes a wide range of sectors including gasoline additives and blends in the petroleum industry active ingredients and excipients in the pharmaceutical industry and a variety of consumer products and specialty chemicals Traditionally such products have been designed through trial and error methods which not only are time consuming but more importantly only provide limited knowledge that can be translated into next generation products Features an impressive collection of contributions from leading researchers in the field Presents the latest tools available across a variety of industries Describes the challenges involved in systematic product design as well as the latest methods for solving such problems Covers a wide range of sectors including gasoline additives and blends in the petroleum industry active ingredients and excipients in the pharmaceutical industry and a variety of consumer products and specialty chemicals Engineering , 1905 *The Bookman* , 1898 **The Publisher** , 1911 **Book Review Digest** , 1928 *The Athenaeum* , 1907 **India Rubber World and Electrical Trades Review** John Robertson Dunlap, Henry Clemens Pearson, 1921 **Educational Times** , 1909 **Technometrics** , 1992 The Reference Catalogue of Current Literature , 1913 *Athenaeum and Literary Chronicle* , 1870 *The Publishers' Circular and Booksellers' Record* , 1922 **Modeling with Technology** David H. Jonassen, 2006 Well known for addressing the use of computers to foster critical thinking and problem solving this text was written to teach current and

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