

1 FOCUS

Objectives

- 1.3.1 **Describe** how Lavoisier transformed chemistry.
- 1.3.2 **Identify** three steps in the scientific method.
- 1.3.3 **Explain** why collaboration and communication are important in science.

Guide for Reading

Build Vocabulary

Word Forms When discussing the two types of variables, explain that one meaning of *manipulate* is “to manage or control” and one meaning of *response* is “to answer or act in turn.”

Reading Strategy

Use Prior Knowledge Before students read the section, ask them what they know about the scientific method.

2 INSTRUCT

Connecting to Your World

Have students read the opening paragraph and look at the photo. Ask, **What made Fleming different from other scientists who had seen this mold?** (Fleming recognized the importance of this discovery. He assumed that the mold had released a chemical that prevented the growth of bacteria.)

Alchemy

Relate

Students who have read the Harry Potter books will be familiar with the name of one alchemist, Nicolas Flamel (1330–1414), who wrote a book about the philosopher’s stone. Alchemists believed that the philosopher’s stone could change base metals into gold.

Guide for Reading



Key Concepts

- How did alchemy lay the groundwork for chemistry?
- How did Lavoisier help to transform chemistry?
- What are the steps in the scientific method?
- What role do collaboration and communication play in science?

Vocabulary

scientific method
observation
hypothesis
experiment
manipulated variable
responding variable
theory
scientific law

Reading Strategy

Building Vocabulary After you read this section, explain the difference between a theory and a scientific law.



20 Chapter 1

Connecting to Your World

In 1928, Alexander Fleming, a Scottish scientist, noticed that a bacteria he was studying did not grow in the presence of a yellow-green mold. Other scientists had made the same observation, but Fleming was the first to recognize its importance. He assumed that the mold had released a chemical that prevented the growth of the bacteria. That chemical was penicillin, which can kill a wide range of harmful bacteria. In 1945, Fleming shared a Nobel Prize for Medicine with Howard Florey and Ernst Chain, who led the team that isolated penicillin. In this section you will study the methods scientists use to solve problems.



Alchemy

The word *chemistry* comes from alchemy. Long before there were chemists, alchemists were studying matter. Alchemy arose independently in many regions of the world. It was practiced in China and India as early as 400 B.C. In the eighth century, Arabs brought alchemy to Spain, from where it spread quickly to other parts of Europe.

Alchemy had a practical side and a mystical side. Practical alchemy focused on developing techniques for working with metals, glass, and dyes. Mystical alchemy focused on concepts like perfection. Because gold was seen as the perfect metal, alchemists were searching for a way to change other metals, such as lead, into gold. Although alchemists did not succeed in this quest, the work they did spurred the development of chemistry.

Alchemists developed the tools and techniques for working with chemicals. Alchemists developed processes for separating mixtures and purifying chemicals. They designed equipment that is still used today, including beakers, flasks, tongs, funnels, and the mortar and pestle in Figure 1.15. What they did not do was provide a logical set of explanations for the changes in matter that they observed. That task was left for chemists to accomplish.

Figure 1.15 A bowl-shaped mortar and a club-shaped pestle are used to grind or crush materials such as herbs, spices, and paint pigments. The mortar and pestle in the photograph is made of porcelain, which is a hard material.

Section Resources

Print

- [Guided Reading and Study Workbook, Section 1.3](#)
- [Core Teaching Resources, Section 1.3 Review](#)
- [Transparencies, T5–T6](#)
- [Laboratory Manual, Lab 1](#)
- [Small-Group Chemistry Laboratory Manual, Lab 1](#)

Technology

- [Interactive Textbook with ChemASAP, Assessment 1.3](#)
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S Ashworth



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forces *The Sourcebook for Teaching Science, Grades 6-12* Norman Herr, 2008-08-11 The Sourcebook for Teaching Science is a unique comprehensive resource designed to give middle and high school science teachers a wealth of information that will enhance any science curriculum Filled with innovative tools dynamic activities and practical lesson plans that are grounded in theory research and national standards the book offers both new and experienced science teachers powerful strategies and original ideas that will enhance the teaching of physics chemistry biology and the earth and space sciences **Resources in Education** , 2000-04 [Applied Mechanics Reviews](#) , 1986 **Subsurface Restoration** C. H. Ward, 1997-11-01 Presenting a clear understandable examination this book outlines efficient effective methods and strategies for the complex field of subsurface remediation The editors fully assess the state of knowledge of subsurface science requisite for finding new solutions providing a focused guide for advanced subsurface remediation technology Unparalleled in scope and practicality Subsurface Restoration assists those persons determining the extent of environmental contamination for remedial technology selection and for environmental decision making at all levels **The Art of Problem Solving in Organic Chemistry** Miguel E. Alonso-Amelot, 2023-08-22 The Art of Problem Solving in Organic Chemistry The new edition of the classic textbook that has helped thousands of students understand and solve the complex mechanistic problems posed by organic reactions The Art of Problem Solving in Organic Chemistry is a must have workbook for students and professionals alike offering step by step guidance on applying proven strategies and logical techniques to solve complex reaction mechanism problems The book is organized in two sections The Toolbox and the Problem Chest The first part is presented in four chapters covering advanced contemporary issues of molecular structure and orbital configuration stereoelectronic constraints electron shifts redeployment and arrow pushing allowances and pitfalls as well as functional groups roles and key intermediate species all of which dominate the reaction mechanism scenario These concepts are rounded up by a series of time tested problem analysis strategies and thinking routes shown in flowcharts and illustrated by application to specific cases The Problem Chest puts together a set of 50 newly selected fully discussed mechanism problems of increasing difficulty in which all the power of the Toolbox paraphernalia is put to work Now in its third edition The Art of Problem Solving in Organic Chemistry retains the structure of previous editions previously rated among the 30 best organic chemistry books of all time by BookAuthority More than 50 revised organic reaction mechanism problems are complemented by an entirely new set of problems additional concepts and techniques expanded coverage of applications in contemporary organic chemistry embedded cases of the existing reaction pool taken from recent literature and much more Describes the principles methods tools and problem analysis techniques required to solve organic reaction problems Extends the logic and strategy of the mechanistic approach beyond specific reactions and facts Discusses practical methods for improved problem solving for organic reaction mechanisms Explains tested strategies for analyzing the possibilities of reaction mechanisms between reactants and products Contains detailed appendices with definitions and examples of principles reactions

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