

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-Scale Chemistry Laboratory Manual, Lab 1](#)

Technology

- [Interactive Textbook with ChemASAP, Assessment 1.3](#)
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Prentice Hall Chemistry Answers Chapter 3

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Computational Chemistry Errol G. Lewars, 2016-09-20 This is the third edition of the successful text reference book that covers computational chemistry. It features changes to the presentation of key concepts and includes revised and new material with several expanded exercises at various levels such as harder questions for those ready to be tested in greater depth. This aspect is absent from other textbooks in the field. Although introductory and assuming no prior knowledge of computational chemistry, it covers the essential aspects of the subject. There are several introductory textbooks on computational chemistry; this one is as in its previous editions a unique textbook in the field with copious exercises and questions and solutions with discussions. Noteworthy is the fact that it is the only book at the introductory level that shows in detail yet clearly how matrices are used in one important aspect of computational chemistry. It also serves as an essential guide for researchers and as a reference book. **Prentice Hall Chemistry**, 2000 **The Handy Chemistry Answer**

Book Justin P. Lomont, Ian C. Stewart, 2013-10-01 Don't be mixed up about chemistry. Simplify the complex chemical reactions that take place everywhere in our lives with this engaging easy-to-follow question and answer guide. Where would we be without atoms and compounds? Gas, liquids, solids, and plasma. Acids and bases. Bonds and reactions. Matter and energy. The Handy Chemistry Answer Book covers the building blocks of life and the universe. The secret life of atoms: how polar bears aren't actually white, why oil and water don't mix, and much, much more are revealed and explained. This informative guide covers the basics of chemistry: history, atomic structures, chemical bonds, and reactions; organic and inorganic chemistry; to more advanced material: nuclear chemistry, biochemistry, physical and theoretical chemistry. By answering nearly 1,000 common chemistry questions including: What causes lightning? How does photosynthesis work? What are hard and soft Lewis acids and bases? What makes a fabric waterproof? What are the twelve principles of green chemistry? When did alchemists finally abandon trying to make gold? What is Le Chatelier's principle? What do the different octane ratings mean at the gas pump? What is genetic engineering? Why is calcium important for strong bones? What is the 18-electron rule? Why does chocolate turn white as it ages? Chemical reactions that rule the world: their properties, structure, composition, behavior, and history are tackled and explained in plain English. In The Handy Chemistry Answer Book. With many photos, illustrations, a few formulas, molecular diagrams, and other graphics, this fun, fact-filled tome is richly illustrated. A history of chemistry timeline, appendices on Nobel Prize in Chemistry winners, a bibliography, further reading section, glossary of terms, a table of physical constants, a table of conversion factors, and extensive index add to its usefulness. **Prentice Hall Physical Science**

Concepts in Action Program Planner National Chemistry Physics Earth Science, 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day. Relevant content, lively explorations, and a wealth of hands-on activities take students' understanding of science beyond the page and into the world around them. Now includes even more technology tools and activities to support

differentiated instruction **Chemistry for Degree Students B.Sc. (Honours) Semester II, 1/e (As per CBCS)** Madan R.L., 2022 This textbook has been designed to meet the needs of B Sc Honours Second Semester students of Chemistry as per the UGC Choice Based Credit System CBCS Maintaining the traditional approach to the subject this textbook lucidly explains the basics of Organic and Physical Chemistry Important topics such as alkanes alkenes alkynes stereochemistry aliphatic hydrocarbons thermochemistry chemical thermodynamics and chemical equilibrium are aptly discussed to give an overview of organic and physical chemistry Laboratory work has also been included to help students achieve solid conceptual understanding and learn experimental procedures **Mathematical Methods for Physical and Analytical Chemistry** David Z. Goodson, 2011-11-14 Mathematical Methods for Physical and Analytical Chemistry presents mathematical and statistical methods to students of chemistry at the intermediate post calculus level The content includes a review of general calculus a review of numerical techniques often omitted from calculus courses such as cubic splines and Newton's method a detailed treatment of statistical methods for experimental data analysis complex numbers extrapolation linear algebra and differential equations With numerous example problems and helpful anecdotes this text gives chemistry students the mathematical knowledge they need to understand the analytical and physical chemistry professional literature **An Introduction to Archaeological Chemistry** T. Douglas Price, James H. Burton, 2010-10-17 Archaeological chemistry is a subject of great importance to the study and methodology of archaeology This comprehensive text covers the subject with a full range of case studies materials and research methods With twenty years of experience teaching the subject the authors offer straightforward coverage of archaeological chemistry a subject that can be intimidating for many archaeologists who do not already have a background in the hard sciences With clear explanations and informative illustrations the authors have created a highly approachable text which will help readers overcome that intimidation Topics covered included Materials rock pottery bone charcoal soils metals and others Instruments microscopes NAA spectrometers mass spectrometers GC MS XRF XRD Case Studies Provenience Sediments Diet Reconstruction Past Human Movement Organic Residues The detailed coverage and clear language will make this useful as an introduction to the study of archaeological chemistry as well as a useful resource for years after that introduction **Criminalistics** James E. Girard, James Girard, 2011-01-28 Criminal Investigations Forensic Science *Polymers* Adisa Azapagic, Alan Emsley, Ian Hamerton, 2007-12-10 Recycling von Kunststoffen Gummi und anderen Polymeren Wie beeinflussen solche Prozesse unsere Umwelt Dieser Frage geht der vorliegende Band nach wobei sich der Autor auf die neue Gesetzgebung in den USA Japan und der EU bezieht die Polymerhersteller zum Recycling zwingt Vor und Nachteile der Recyclingkreisläufe werden einander gegenübergestellt Alle Kapitel enthalten Beispielfragen und antworten Applied Mechanics Reviews, 1973 **Modern Enolate Chemistry** Manfred Braun, 2016-02-23 Authored by one of the world's leading synthetic chemists in the field this reference presents modern enolate chemistry with an emphasis on metal O enolates in asymmetric synthesis While great care is taken to cover

novel successful concepts such as classical methods as the famous Evans enolates are equally highlighted Throughout the book representative reaction procedures are presented thus helping readers to find the best solution for their own synthetic problem Of high interest to synthetic chemists in academia as well as the pharmaceuticals agrochemicals and fine chemicals industries *Resources in Education* ,1984 Serves as an index to Eric reports microform **Prentice Hall Exploring Life Science** Anthea Maton,1997 *WebDoctor* Richard M. Sharp,Vicki F. Sharp,1998 Originally published in 1973 *Black Players* was the first book to do a thorough examination of the urban pimp culture Social anthropologists Richard and Christina Milner were allowed access to the secretive and controversial world of pimps and prostitutes *Black Player* guides the reader through every aspect of this unfamiliar world allowing the *Players* to describe themselves and the rules of the game in their own words The Milners interviewed many of the top pimps in the Bay area and other parts of the country during the late 60 s early 70 s There is even a rare interview with legendary pimp turned author Iceberg Slim in this book Out of this experience has come one of the most fascinating journeys into a secret culture ever written *Chemistry* John McMurry,1998 *NASA EP*. United States. National Aeronautics and Space Administration,1969 **Prentice Hall Science Explorer** Michael J. Padilla,2002 *Nielsen's Food Analysis* B. Pam Ismail,S. Suzanne Nielsen,2024-06-24 This sixth edition provides information on techniques needed to analyze foods for chemical and physical properties The book is ideal for undergraduate courses in food analysis and it is also an invaluable reference for professionals in the food industry General information chapters on regulations labeling sampling and data handling provide background information for chapters on specific methods to determine chemical composition and characteristics physical properties and constituents of concern Methods of analysis cover information on the basic principles advantages limitations and applications The information on food analysis applications has been expanded in a number of chapters that cover basic analytical techniques Instructors who adopt the textbook can contact B Ismail for access to a website with related teaching materials **Lasers in Chemistry** David L. Andrews,2012-12-06 During the three years since the publication of the first edition many applications of lasers in Chemistry have moved across the boundary from academic laboratories to routine instrumental analysis laser mass spectrometry for instance New photochemical techniques have been developed for the study of molecules e g ultrafast spectroscopy In keeping with his successful concept the author has retained a balance between coverage of more widely used laser methods and new developments **Environmental Chemistry** Stanley Manahan,Stanley E. Manahan,2009-12-17 The field of environmental chemistry has evolved significantly since the publication of the first edition of *Environmental Chemistry* Throughout the book s long life it has chronicled emerging issues such as organochloride pesticides detergent phosphates stratospheric ozone depletion the banning of chlorofluorocarbons and greenhouse warming

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