## E 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.

#### EI 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.

# 1.3 Thinking Like a Scientist

#### Guide for Reading

- Concepts
  - . Interest shall adolescent law than proving the self-secretary?
  - Interest placed Lawrenteen beings too. te perceliarem, charmantery f
  - · What are the steps in the section title: marthad?
  - What tole do collaboration. and communication play Philipping P

#### Wood advision y

submitted method.

All the Park Street, St

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PROPERTY AND ADDRESS. montpulated variable

recipionalistic unclubile. **History** 

subservability have

#### Reading Strategy

Building Westledary After you read this section, explain the difference between a theory send a series offer bear



20 Chapter 1

#### Connecting to Your World

led the team that isolated penicillin in this

section you will study the methods scientists.

In 1928, Alexander Fleening, 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 penicitin, 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

#### Alchemy

use to solve problems.

The word obseniary comes from alchemy. Long before these 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 R.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 dves-Mystical alchemy focused on concepts like perfection. Because gold was were as the perfect metal, alchemists were searching for a way to change other metals, such as lead, into rold, Although alchemists did not succeed in this quest, the work they did spurred the development of chemistry.

C Alchemists developed the tools and techniques for working with chemicals. Aichemists 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 peetle 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 no accommodish.

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

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## 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-Scall Chemistry Laboratory Manual, Lab 1.

# Technology

- \*Interactive Textbook with ChemASAP, Assessment 1.3
- Go Online, Section 1.3.

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**JA Banks** 

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