

Study Guide

Interactive Textbook

- Interactive Student Edition
- Self-Assessment with remediation
- Assessment reports for teachers

Apply the BIG Idea

Connect to Key Concepts

Reinforce the chapter's Big Idea by connecting it to important Key Concepts. For example, ask: **What is scientific inquiry?** (Sample answer: *A process in which meaningful questions are asked and answered by conducting careful investigations.*)

Teaching Resources

Teaching Resources, Unit 1

- Chapter 1 Key Terms Review
- Chapter 1 Vocabulary Skill

Color Transparencies

- Transparency 7.6

Chapter Tests Levels A and B

- Chapter 1 Tests
- Chapter 1 Performance Assessment

Standards Review Transparencies

Progress Monitoring Assessment

- Screening, diagnostic, and benchmark tests

 **ExamView® Computer Test Bank CD-ROM**

Go Online
PHSchool.com

For: Self-Assessment
Visit: PHSchool.com
Web Code: cva-1010

Students can take a practice test online that is automatically scored.

Key

AA Active Art
RNG-A Reading and Note Taking Guide, Level A
RNG-B Reading and Note Taking Guide, Level B
TR Teaching Resources

Chapter 1

Study Guide

The BIG Idea

Scientific progress is made by asking meaningful questions and conducting careful investigations.

1 Thinking Like a Scientist

Key Concepts

S 7.7

- Scientists use skills such as observing, inferring, predicting, classifying, and making models to learn more and make scientific progress.

Key Terms

science
observing
quantitative observation
qualitative observation
inferring
predicting
classifying
making models
scale model

2 The Study of Life

Key Concepts

S 7.5, 7.6

- Life science can be divided into branches; the different fields of study often overlap.
- The big ideas in life science include the following: Organisms are diverse, yet share similar characteristics. Groups of organisms change over time. The structure and function of organisms are complementary. Organisms operate on the same physical principles as the rest of the natural world.

Key Terms

life science
biology
organism
development
structure
function
complementary



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3 Scientific Inquiry

Key Concepts

S 7.7.c

- Scientific inquiry refers to the diverse ways in which scientists investigate the natural world and propose explanations based on the evidence they gather.
- In science, a hypothesis must be testable. This means that researchers must be able to carry out investigations and gather evidence that will either support or disprove the hypothesis.

Key Terms

scientific inquiry
hypothesis
variable
controlled experiment
manipulated variable
responding variable
control
operational definition
data
communicating

4 Safety in the Laboratory

Key Concepts

S 7.7

- Good preparation helps you conduct careful scientific investigation by planning for safety.
- When any accident occurs, no matter how minor, notify your teacher immediately. Then, listen to your teacher's directions and carry them out quickly.

Diagnose and Remediate

Also available on 

Standard	Review and Assessment Items	Standards-Targeted Resources	Additional Resources
S 7.5	1, 6, 7, 18	RNG-A 16–19; RNG-B 16–18	Teaching Resources: Vocabulary Skill
S 7.6	14	RNG-A 16–19; RNG-B 16–18	Teaching Resources: Key Terms
S 7.7	2, 3, 5, 8, 11, 12, 13, 16, 17, 19, 20, 21, 24, 25	AA cgp-6012; RNG-A 11–15, 25–28; RNG-B 11–15, 21–22; Video Field Trip	Student Edition in MP3 (English/Spanish)
S 7.7.c	2, 4, 9, 10, 15, 16, 21, 22, 23, 25, 26	AA cgp-6012; RNG-A 20–24; RNG-B 19–20; Video Field Trip	Student Express with Interactive Textbook CD-ROM
S 7.7.e	10	AA cgp-6012; RNG-A 20, 22, 24; RNG-B 19–20	