

# Lesson Plan

# 1.1

# What Is Biology?

pp. 2–10

1/2 class session(s)



**KEY:** SE = Student Edition, TWE = Teacher Wraparound Edition, TCR = Teacher Classroom Resources, NGS = National Geographic Society videodisc, BDOL = Biology: The Dynamics of Life

## Section Objectives

- Recognize some possible benefits from studying biology.
- Summarize the characteristics of living things.

## Focus

- \_\_\_\_\_ Section Focus Transparency 1 and Master
- \_\_\_\_\_ Getting Started Demo, TWE p. 2
- \_\_\_\_\_ Bellringer, TWE p. 3

## National Science Content Standards

UCP.2; A.1, A.2; C.1, C.3, C.4, C.5, C.6; E.1, E.2; F.3, F.4, F.6; G.1

## Georgia QCC

1.1, 1.2, 1.3, 1.4, 2.1, 3.1, 3.2, 4.1, 4.2, 5.1, 12.3, 25.2

## Teach

- \_\_\_\_\_ MiniLab 1-1, SE p. 6
- \_\_\_\_\_ Careers in Biology, SE p. 8
- \_\_\_\_\_ Internet BioLab, SE p. 26
- \_\_\_\_\_ Biology Journal, TWE pp. 4, 9
- \_\_\_\_\_ Portfolio, TWE pp. 4, 7, 9
- \_\_\_\_\_ Quick Demo, TWE p. 7
- \_\_\_\_\_ Cultural Diversity, TWE p. 8
- \_\_\_\_\_ BioLab and MiniLab Worksheets, p. 1 TCR
- \_\_\_\_\_ Concept Mapping, p. 1 TCR
- \_\_\_\_\_ Spanish Resources

## Assess/Reteach

- \_\_\_\_\_ Section Assessment, SE p. 10
- \_\_\_\_\_ Check for Understanding, TWE p. 9
- \_\_\_\_\_ Reteach, TWE p. 10
- \_\_\_\_\_ Reinforcement and Study Guide, pp. 1–2 TCR
- \_\_\_\_\_ Content Mastery, pp. 1–2, 4 TCR

## Enrichment/Application

- \_\_\_\_\_ Enrichment, TWE p. 5
- \_\_\_\_\_ Extension, TWE p. 10
- \_\_\_\_\_ Critical Thinking/Problem Solving, p. 1 TCR

## Close

- \_\_\_\_\_ Demonstration, TWE p. 10

## Chapter Assessment

- \_\_\_\_\_ Assessment, TWE pp. 6, 8, 10
- \_\_\_\_\_ Performance Assessment in the Biology Classroom, TCR
- \_\_\_\_\_ Alternate Assessment in the Science Classroom, TCR

## Multimedia Options

- \_\_\_\_\_ BDOL CD-ROM Section 1.1 Summary; Video: *Biologist at Work, How Organisms Interact, Adapted for Survival*
- \_\_\_\_\_ MindJogger Videoquizzes, Ch.1 videotape
- \_\_\_\_\_ ExamView®Pro Software, Ch. 1
- \_\_\_\_\_ BDOL Videodisc: *Biologist at Work, How Organisms Interact*
- \_\_\_\_\_ Videodisc: *The Infinite Voyage: The Keepers of Eden; The Secret of Life: Camouflage*
- \_\_\_\_\_ Using the Internet in the Science Classroom, TCR
- \_\_\_\_\_ Glencoe Science Web Site: [ga.science.glencoe.com](http://ga.science.glencoe.com)



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pp. 11–20

1 class session(s)

### Section Objectives

- Compare different scientific methods.
- Differentiate among hypothesis, theory, and principle.

### National Science Content Standards

UCP.2, A.1, A.2; B.2; C.6; F.4, F.5; G.1, G.2

### Georgia QCC

1.1, 1.2, 1.3, 3.2

### Focus

- \_\_\_\_\_ Section Focus Transparency 2 and Master Bellringer, *TWE*, p. 11

### Teach

- \_\_\_\_\_ MiniLab 1-2, *SE* p. 14
- \_\_\_\_\_ Focus On Scientific Theories, *SE* p. 16
- \_\_\_\_\_ Problem-Solving Lab 1-1, *SE* p. 18
- \_\_\_\_\_ Inside Story, *SE* p. 19
- \_\_\_\_\_ Alternative Lab, *TWE* p. 12
- \_\_\_\_\_ Quick Demo, *TWE* pp. 12, 15
- \_\_\_\_\_ Biology Journal, *TWE* pp. 16, 18
- \_\_\_\_\_ Portfolio, *TWE* p. 17
- \_\_\_\_\_ *BioLab and MiniLab Worksheets*, pp. 3–4 *TCR*
- \_\_\_\_\_ *Laboratory Manual*, pp. 1–4 *TCR*
- \_\_\_\_\_ *Spanish Resources*, *TCR*

### Assess/Reteach

- \_\_\_\_\_ Section Assessment, *SE* p. 20
- \_\_\_\_\_ Check for Understanding, *TWE* p. 19
- \_\_\_\_\_ Reteach, *TWE* p. 19
- \_\_\_\_\_ *Content Mastery*, pp. 1, 3–4 *TCR*
- \_\_\_\_\_ *Reinforcement and Study Guide*, p. 3 *TCR*

### Enrichment/Application

- \_\_\_\_\_ Project, *TWE* p. 19
- \_\_\_\_\_ Extension, *TWE* p. 20
- \_\_\_\_\_ *Tech Prep Applications*, pp. 1–2 *TCR*

### Close

- \_\_\_\_\_ Demonstration, *TWE* p. 20

### Chapter Assessment

- \_\_\_\_\_ Assessment, *TWE* pp. 13, 14, 18, 20
- \_\_\_\_\_ *Performance Assessment in the Biology Classroom*, *TCR*
- \_\_\_\_\_ *Alternate Assessment in the Science Classroom.*, *TCR*

### Multimedia Options

- \_\_\_\_\_ **BDOL CD-ROM** Section 1.2 Summary; Exploration: *Interpreting Data*
- \_\_\_\_\_ **MindJogger Videoquizzes**, Ch.1 videotape
- \_\_\_\_\_ **Videotape:** *The Secret of Life: On the Brink: Portraits of Modern Science*
- \_\_\_\_\_ **ExamView®Pro Software**, Ch. 1
- \_\_\_\_\_ **Videodisc:** *The Secret of Life: Microscopy Segment, On the Brink: Portraits of Modern Science; The Infinite Voyage: Unseen Worlds, The Great Dinosaur Hunt*
- \_\_\_\_\_ *Using the Internet in the Science Classroom*, *TCR*
- \_\_\_\_\_ Glencoe Science Web Site: [ga.science.glencoe.com](http://ga.science.glencoe.com)



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pp. 21–31

2 1/2 class session(s)

### Section Objectives

- **Compare and contrast** quantitative and descriptive research.
- **Explain** why science and technology cannot solve all problems.

### National Science Content Standards

UCP.2; A.1, A.2; E.1, E.2; F.3, F.4, F.5; G.1, G.2

### Georgia QCC

1.1, 1.2, 2.1, 3.1, 3.2, 4.1

### Focus

- \_\_\_\_\_ Section Focus Transparency 3 and Master Bellringer, *TWE* p. 21

### Teach

- \_\_\_\_\_ Problem-Solving Lab 1-2, *SE* p. 22
- \_\_\_\_\_ MiniLab 1-3, *SE* p. 23
- \_\_\_\_\_ Biology & Society, *SE* p. 28
- \_\_\_\_\_ Biology Journal, *TWE* p. 21
- \_\_\_\_\_ Cultural Diversity, *TWE* p. 22
- \_\_\_\_\_ Quick Demo, *TWE* p. 22
- \_\_\_\_\_ Portfolio, *TWE* p. 23
- \_\_\_\_\_ *BioLab and MiniLab Worksheets*, pp. 5, 7–8 *TCR*
- \_\_\_\_\_ *Laboratory Manual*, pp. 5–8 *TCR*
- \_\_\_\_\_ *Spanish Resources*

### Assess/Reteach

- \_\_\_\_\_ Section Assessment, *SE* p. 25
- \_\_\_\_\_ Check for Understanding, *TWE* p. 25
- \_\_\_\_\_ Reteach, *TWE* p. 25
- \_\_\_\_\_ *Reinforcement and Study Guide*, p. 4 *TCR*
- \_\_\_\_\_ *Content Mastery*, pp. 1, 3–4 *TCR*
- \_\_\_\_\_ *5 Days to the Georgia High School Graduation Test*, *TCR*

### Enrichment/Application

- \_\_\_\_\_ Enrichment, *TWE* p. 24
- \_\_\_\_\_ Tech Prep, *TWE* p. 24
- \_\_\_\_\_ Project, *TWE* p. 24
- \_\_\_\_\_ Extension, *TWE* p. 25

### Close

- \_\_\_\_\_ Discussion, *TWE* p. 25

### Chapter Assessment

- \_\_\_\_\_ Chapter Assessment, *SE* pp. 29–31
- \_\_\_\_\_ Assessment, *TWE* pp. 22, 23, 25, 27
- \_\_\_\_\_ **BDOL Interactive CD-ROM**, Chapter 1 quiz
- \_\_\_\_\_ *Chapter Assessment*, pp. 1–6 *TCR*
- \_\_\_\_\_ *Performance Assessment in the Biology Classroom*, *TCR*
- \_\_\_\_\_ *Alternate Assessment in the Science Classroom*, *TCR*

### Multimedia Options

- \_\_\_\_\_ **BDOL CD-ROM** Section 1.3 Summary
- \_\_\_\_\_ **MindJogger Videoquizzes**, Ch.1 videotape
- \_\_\_\_\_ **ExamView®Pro Software**, Ch. 1
- \_\_\_\_\_ *Using the Internet in the Science Classroom*, *TCR*
- \_\_\_\_\_ Glencoe Science Web Site: [ga.science.glencoe.com](http://ga.science.glencoe.com)