



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

pp. 174–180

1 class session(s)

Section Objectives

- **Relate** advances in microscope technology to discoveries about cells and cell structure.
- **Compare** the operation of a compound light microscope with that of an electron microscope.
- **Identify** the main ideas of the cell theory.

National Science Content Standards

UCP.1, UCP.5; B.2; C.1, C.5; E.1, E.2; G.1–3

Georgia QCC

1.1, 1.2, 1.3, 1.4, 2.1, 4.2, 4.3, 4.4, 4.5

Focus

- _____ Section Focus Transparency 15 and Master Getting Started Demo, *TWE* p. 174
- _____ Bellringer, *TWE* p. 175

Teach

- _____ MiniLab 7-1, *SE* p. 177
- _____ Focus on Microscopes, *SE* p. 178
- _____ Investigate BioLab, *SE* p. 194
- _____ Quick Demo, *TWE* pp. 174, 176
- _____ Biology Journal, *TWE* p. 176
- _____ Portfolio, *TWE* pp. 177, 178
- _____ *BioLab and MiniLab Worksheets*, p. 31 *TCR*
- _____ *Laboratory Manual*, pp. 47–54 *TCR*
- _____ *Spanish Resources*

Assess/Reteach

- _____ Section Assessment, *SE* p. 180
- _____ Check for Understanding, *TWE* p. 180
- _____ Reteach, *TWE* p. 180
- _____ *Reinforcement and Study Guide*, p. 29 *TCR*
- _____ *Content Mastery*, pp. 33–34, 36 *TCR*
- _____ Reteaching Skills Transparency 9 and Master

Enrichment/Application

- _____ Enrichment, *TWE* p. 176
- _____ Extension, *TWE* p. 180

Close

- _____ Activity, *TWE*, p. 180

Chapter Assessment

- _____ Assessment, *TWE* pp. 176, 177, 180
- _____ *Performance Assessment in the Biology Classroom*, *TCR*
- _____ *Alternate Assessment in the Science Classroom*, *TCR*

Multimedia Options

- _____ **BDOL CD-ROM** Section 7.1 Summary; Video: *The Light Microscope*; *The SEM*
- _____ **MindJogger Videoquizzes**, Ch. 7 videotape
- _____ **ExamView®Pro Software**, Ch. 7
- _____ *Using the Internet in the Science Classroom*, *TCR*
- _____ **Videodisc:** *The Infinite Voyage: Unseen Worlds*; *The Secret of Life: Cells, Microscopy, and Prokaryotic Cell*
- _____ Glencoe Science Web Site: ga.science.glencoe.com



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pp. 181–184

2 class session(s)

Section Objectives

- **Explain** how a cell's plasma membrane functions.
- **Relate** the function of the plasma membrane to the fluid mosaic model.

National Science Content Standards

UCP.1–3, UCP.5; A.1, A.2; B.2; C.1, C.5; G.1

Georgia QCC

1.1, 3.2, 5.1, 5.2, 5.3, 6.3, 6.4

Focus

- _____ Section Focus Transparency 16 and Master Bellringer, *TWE* p. 181

Teach

- _____ Problem-Solving Lab 7-1, *SE* p. 182
- _____ Biology Journal, *TWE* p. 183
- _____ Quick Demo, *TWE* p. 183
- _____ Portfolio, *TWE* p. 183
- _____ Basic Concepts Transparency 6 and Master *Inside Story Poster*, *TCR*
- _____ *Spanish Resources*

Assess/Reteach

- _____ Section Assessment, *SE* p. 184
- _____ Check for Understanding, *TWE* p. 183
- _____ Reteach, *TWE* p. 184
- _____ *Content Mastery*, pp. 33, 35–36 *TCR*
- _____ *Reinforcement and Study Guide*, p. 30 *TCR*

Enrichment/Application

- _____ Tech Prep, *TWE* p. 181
- _____ Cultural Diversity, *TWE* p. 182
- _____ Extension, *TWE* p. 184
- _____ *Tech Prep Applications*, pp. 11–14 *TCR*

Close

- _____ Discussion, *TWE* p. 184

Chapter Assessment

- _____ Assessment, *TWE* pp. 182, 183, 184
- _____ *Performance Assessment in the Biology Classroom*, *TCR*
- _____ *Alternate Assessment in the Science Classroom*, *TCR*

Multimedia Options

- _____ **BDOL CD-ROM** Section 7.2 Summary; Exploration: *Parts of a Cell*
- _____ **MindJogger Videoquizzes**, Ch. 7 videotape
- _____ **ExamView®Pro Software**, Ch. 7
- _____ *Using the Internet in the Science Classroom*, *TCR*
- _____ **Videodisc:** *The Secret of Life*, Cell Membranes: Membranes and Transport
- _____ Glencoe Science Web Site: ga.science.glencoe.com



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pp. 185–199

3 class session(s)

Section Objectives

- **Understand** the structure and function of the parts of a typical eukaryotic cell.
- **Explain** the advantages of highly folded membranes in cells.
- **Compare and contrast** the structures of plant and animal cells.

National Science Content Standards

UCP. 1–3, UCP.5; A.1, A.2; C.1, C.5; E.1, E.2; G.1–3

Georgia QCC

1.1, 1.2, 1.3, 1.4, 2.1, 4.2, 4.3, 4.4, 4.5, 6.4

Focus

_____ Section Focus Transparency 17 and Master
 _____ Bellringer, *TWE* p. 185

Teach

_____ Problem-Solving Lab 7-2, *SE* p. 186
 _____ MiniLab 7-2, *SE* p. 187
 _____ Inside Story, *SE* p. 192
 _____ Literature Connection, *SE* p. 196
 _____ Portfolio, *TWE* pp. 186, 190
 _____ Alternative Lab, *TWE* p. 188

_____ Biology Journal, *TWE* p. 191
 _____ Quick Demo, *TWE* p. 191
 _____ *BioLab and MiniLab Worksheets*, pp. 32–34 *TCR*
 _____ Basic Concepts Transparency 7 and Master
 _____ *Concept Mapping*, p. 7 *TCR*
 _____ *Spanish Resources*

Assess/Reteach

_____ Section Assessment, *SE* p. 193
 _____ Check for Understanding, *TWE* p. 193
 _____ Reteach, *TWE* p. 193
 _____ Reinforcement, *TWE* p. 189

_____ *Reinforcement and Study Guide*, pp. 31–32 *TCR*
 _____ Reteaching Skills Transparency 10 and Master
 _____ *Content Mastery*, pp. 33, 35–36 *TCR*
 _____ *5 Days to the Georgia High School Graduation Test*, *TCR*

Enrichment/Application

_____ Cultural Diversity, *TWE* p. 187
 _____ Extension, *TWE* p. 193
 _____ *Critical Thinking/Problem Solving*, p. 7 *TCR*

Close

_____ Discussion, *TWE* p. 193

Chapter Assessment

_____ Chapter Assessment, *SE* pp. 197–199
 _____ Assessment, *TWE* pp. 186, 187, 189, 193
 _____ *Chapter Assessment*, pp. 37–42, *TCR*
 _____ *Performance Assessment in the Biology Classroom*, *TCR*

_____ *Alternate Assessment in the Science Classroom*, *TCR*
 _____ **BDOL Interactive CD-ROM**, Chapter 7 quiz

Multimedia Options

_____ **BDOL CD-ROM** Section 7.3 Summary;
 Bioquest: *Cellular Pursuit*
 _____ **MindJogger Videoquizzes**, Ch.7 videotape
 _____ **ExamView®Pro Software**, Ch. 7
 _____ *Using the Internet in the Science Classroom*, *TCR*

_____ **NGS Videodisc**: STV: The Cell; *The Secret of Life*: Cell Organelles, Animal Cell, Plant Cell
 _____ Glencoe Science Web Site:
ga.science.glencoe.com