



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

- **Explain** how the processes of diffusion, passive transport, and active transport occur and why they are important to cells.
- **Predict** the effect of a hypotonic, hypertonic, or isotonic solution on a cell.

National Science Content Standards

UCP. 1–3, UCP.5; A.1, A.2; B.6; C.1, C.5

Mississippi Science Framework, Biology I

2c; 3e

Focus

- _____ Section Focus Transparency 18 and Master Getting Started Demo, *TWE* p. 200
- _____ Bellringer, *TWE* p. 201

Teach

- _____ MiniLab 8-1, *SE* p. 204
- _____ Quick Demo, *TWE* p. 202
- _____ Alternative Lab, *TWE* p. 202
- _____ Biology Journal, *TWE* p. 205
- _____ *BioLab and MiniLab Worksheets*, p. 35 *TCR*
- _____ *Laboratory Manual*, pp. 55–56 *TCR*
- _____ *Concept Mapping*, p. 8 *TCR*
- _____ Basic Concepts Transparency 9 and Master
- _____ *Spanish Resources*

Assess/Reteach

- _____ Section Assessment, *SE* p. 206
- _____ Check for Understanding, *TWE* p. 205
- _____ Reteach, *TWE* p. 206
- _____ *Content Mastery*, pp. 37–38, 40 *TCR*
- _____ *Reinforcement and Study Guide*, p. 33, *TCR*
- _____ Reteaching Skills Transparencies 11, 12 and Masters

Enrichment/Application

- _____ Tech Prep, *TWE* p. 203
- _____ Enrichment, *TWE* p. 205
- _____ Extension, *TWE* p. 206

Close

- _____ Discussion, *TWE* p. 206

Chapter Assessment

- _____ Assessment, *TWE* pp. 202, 203, 204, 206
- _____ *Performance Assessment in the Biology Classroom*, *TCR*
- _____ *Alternate Assessment in the Science Classroom*, *TCR*

Multimedia Options

- _____ **BDOL CD-ROM** Section 8.1 Summary
- _____ **MindJogger Videoquizzes**, Ch. 8 videotape
- _____ **ExamView®Pro Software**, Ch. 8
- _____ *Using the Internet in the Science Classroom*, *TCR*
- _____ **BDOL Videodisc:** *Passive Transport, Active Transport*
- _____ **Videodisc:** *The Secret of Life: Osmosis Demonstration*
- _____ Glencoe Science Web Site:
ms.science.glencoe.com

Lesson Plan 8.2

Cell Growth and Reproduction



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pp. 207–216

2 class session(s)

Section Objectives

- **Sequence** the events of the cell cycle.
- **Relate** the function of a cell to its organization as a tissue, an organ, and an organ system.

National Science Content Standards

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

Mississippi Science Framework, Biology I

3f

Focus

- _____ Section Focus Transparency 19 and Master Bellringer, *TWE* p. 207

Teach

- _____ Problem-Solving Lab 8-1, *SE* p. 209
- _____ Problem-Solving Lab 8-2, *SE* p. 210
- _____ Inside Story, *SE* p. 211
- _____ MiniLab 8-2, *SE* p. 215
- _____ Investigate BioLab, *SE* p. 220
- _____ Biology Journal, *TWE* p. 207
- _____ Quick Demo, *TWE* p. 208
- _____ Portfolio, *TWE* p. 209, 211, 212
- _____ Cultural Diversity, *TWE* p. 210
- _____ *BioLab and MiniLab Worksheets*, p. 36 *TCR*
- _____ *Laboratory Manual*, pp. 57–60 *TCR*
- _____ Basic Concepts Transparency 10 and Master
- _____ *Spanish Resources*

Assess/Reteach

- _____ Section Assessment, *SE* p. 216
- _____ Reinforcement, *TWE* p. 214
- _____ Check for Understanding, *TWE* p. 216
- _____ Reteach, *TWE* p. 216
- _____ *Content Mastery*, pp. 37, 39–40 *TCR*
- _____ *Reinforcement and Study Guide*, pp. 34–35 *TCR*
- _____ Reteaching Skills Transparency 13 and Master

Enrichment/Application

- _____ Enrichment, *TWE* pp. 212, 214
- _____ Tech Prep, *TWE* p. 213
- _____ Extension, *TWE* p. 216

Close

- _____ Activity, *TWE* p. 216

Chapter Assessment

- _____ Assessment, *TWE* p. 208, 209, 210, 215, 216
- _____ *Performance Assessment in the Biology Classroom*, *TCR*
- _____ *Alternate Assessment in the Science Classroom*, *TCR*

Multimedia Options

- _____ **BDOL CD-ROM** Section 8.2 Summary; Animation: *The Cell Cycle*; Exploration: *Phases of Mitosis*
- _____ **MindJogger Videoquizzes**, Ch. 8 videotape
- _____ **ExamView®Pro Software**, Ch. 8
- _____ *Using the Internet in the Science Classroom*, *TCR*
- _____ **BDOL Videodisc:** *The Cell Cycle*
- _____ **NGS Videodisc:** STV: *The Cell, How Cells Reproduce*
- _____ Glencoe Science Web Site: ms.science.glencoe.com



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pp. 217–225

2 class session(s)

Section Objectives

- **Describe** the role of enzymes in the regulation of the cell cycle.
- **Distinguish** between events of a normal cell cycle and abnormal events that result in cancer.
- **Identify** ways to potentially reduce the risk of cancer.

National Science Content Standards

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

Focus

- _____ Section Focus Transparency 20 and Master
- _____ Bellringer, *TWE* p. 217

Teach

- _____ Problem-Solving Lab 8-3, *SE* p. 218
- _____ Health Connection, *SE* p. 222
- _____ Biology Journal, *TWE* p. 217
- _____ Portfolio, *TWE* pp. 217, 218
- _____ *BioLab and MiniLab Worksheets*, pp. 37–38 *TCR*
- _____ *Spanish Resources*

Assess/Reteach

- _____ Section Assessment, *SE* p. 219
- _____ Check for Understanding, *TWE* p. 219
- _____ Reteach, *TWE* p. 219
- _____ *Reinforcement and Study Guide*, p. 36 *TCR*
- _____ *Content Mastery*, pp. 37, 39–40 *TCR*
- _____ *5 Days to the Mississippi Biology I Subject Area Test*, *TCR*

Enrichment/Application

- _____ Extension, *TWE* p. 219
- _____ *Critical Thinking/Problem Solving*, p. 8 *TCR*

Close

- _____ Activity, *TWE* p. 219

Chapter Assessment

- _____ Chapter Assessment, *SE* pp. 223–225
- _____ Assessment, *TWE* pp. 218, 219, 221
- _____ *Chapter Assessment*, pp. 43–48 *TCR*
- _____ *Performance Assessment in the Biology Classroom*, *TCR*
- _____ *Alternate Assessment in the Science Classroom*, *TCR*
- _____ **BDOL Interactive CD-ROM**, Chapter 8 quiz

Multimedia Options

- _____ **BDOL CD-ROM** Section 8.3 Summary
- _____ **MindJogger Videoquizzes**, Ch. 8 videotape
- _____ **ExamView® Pro Software**, Ch. 8
- _____ *Using the Internet in the Science Classroom*, *TCR*
- _____ **Videodisc: *The Infinite Voyage***: The Living Clock, Time Therapy: Curing Cancer Through Chronobiology
- _____ Glencoe Science Web Site: ms.science.glencoe.com