Block Schedule Planning Guide

7

A View of the Cell

Chapter Pacing Guide

Please note that this pace is based on completing selected sections of the text in 90 classes, approximately 90 minutes each. Less time can be allotted for each chapter if you plan to teach the entire text.

Block	Content
0.5	7.1 The Discovery of Cells
1	7.2 The Plasma Membrane
1	7.3 Eukaryotic Cell Structure
0.5	Chapter Assessment

Block Schedule Planning Guide

7.1

The Discovery of Cells

pages 171–174

Pacing Guide
1/2 block
Lesson & MiniLab

National Science Content Standards: UCP.1, UCP.5; A.1, A.2; C.1; E.1, E.2; G.1–3

KEY: *SE* = Student Edition, *TWE* = Teacher Wraparound Edition, *TCR* = Teacher Classroom Resources, *BDOL* = Biology: The Dynamics of Life, *URB* = Unit Resources Booklet

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.

State/local objectives: _____

Lesson Resources

_____ Section Focus Transparency 15 and Master, *TCR/URB*
_____ *MiniLab Worksheet*, p. 41 *URB*
_____ *Reinforcement and Study Guide*, *URB*
English, p. 47; Spanish, p. 51
_____ Reteaching Skills Transparency 9 and Master, *TCR/URB*

Multimedia Resources

_____ **Interactive Chalkboard CD-ROM:** Section 7.1 Presentation
_____ **MindJogger Videoquizzes**, Ch.7
_____ **Guided Reading Audio Summaries MP3**
_____ *Using the Internet in the Science Classroom*, *TCR*
_____ Glencoe Science Web site: **bdol.glencoe.com**

Optional Resources

_____ *Laboratory Manual*, pp. 35–38, 39–42 *TCR*

Lesson Plan

Activity	Resources	Suggested Time
Classroom Management • Distribute the corrected Chapter 6 tests while students complete the Bellringer for Section 7.1.	Section Focus Transparency 15 and Master, *TCR/URB*	5 minutes
Discussion • Answer Chapter 6 test questions.	*Chapter Assessment*, pp. 176–177 *URB*	5 minutes
Core Lesson • Introduce Chapter 7 with the Two-Minute Chapter Launcher. • Teach the main concepts of Section 7.1. • Have students complete MiniLab 7.1	*TWE*, p. 170 *TWE*, pp. 171–178 *SE*, p. 173	15 minutes
In-Class Check • Assess students' answers to MiniLab 7.1 and discuss their results.	*TWE*, p. 173	10 minutes
Homework • Have students complete Section 7.1 Assessment. • Assign relevant questions from Chapter 7 Assessment.	*SE*, p. 174 *SE*, pp. 191–193	5 minutes
Closing • Assess students with the Assessment activity.	*TWE*, p. 174	5 minutes

[total = 45 minutes]

Block Schedule Planning Guide

7.2

The Plasma Membrane

pages 175–178

Pacing Guide
1 block
Lesson & Problem-Solving Lab

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National Science Content Standards: UCP.1–3, UCP.5; A.1, A.2; B.2; C.1, C.5

Objectives

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

State/local objectives: _____

Lesson Resources

_____ Section Focus Transparency 16 and Master, *TCR/URB*
_____ Basic Concepts Transparency 6 and Master, *TCR/URB*
_____ *Reinforcement and Study Guide*, *URB*
English, p. 48; Spanish, p. 52

Multimedia Resources

_____ **Interactive Chalkboard CD-ROM:**
Section 7.2 Presentation
_____ **MindJogger Videoquizzes**, Ch. 7
_____ **Guided Reading Audio Summaries MP3**
_____ *Using the Internet in the Science Classroom*, *TCR*
_____ Glencoe Science Web site: **bdol.glencoe.com**

Optional Resources

_____ *Real World BioApplications*, pp. 45–46 *URB*

Lesson Plan

Activity	Resources	Suggested Time
Classroom Management • Have students complete the Bellringer for Section 7.2. • Have students check homework answers.	Section Focus Transparency 16 and Master, *TCR/URB* *TWE*, p. 174 *TWE*, pp. 191–193	5 minutes
Discussion • Answer homework questions.	*TWE*, p. 174 *TWE*, pp. 191–193	5 minutes
Core Lesson • Teach the main concepts of Section 7.2. • Do the Quick Demo. • Have students complete Problem-Solving Lab 7.1.	*TWE*, pp. 175–178 *TWE*, p. 177 *SE*, p. 176	35 minutes
In-Class Check • Discuss students' answers to the Thinking Critically questions of Problem-Solving Lab 7.1. • Do the Check for Understanding and Reteach strategies.	*TWE*, p. 176 *TWE*, p. 178	25 minutes
Homework • Have students complete Section 7.2 Assessment. • Assign relevant questions from Chapter 7 Assessment.	*SE*, p. 178 *SE*, pp. 191–193	10 minutes
Closing • Assess students with the Physical Science Connection.	*TWE*, p. 177	10 minutes

[total = 90 minutes]

Block Schedule Planning Guide

7.3 Eukaryotic Cell Structures

pages 179–187

Pacing Guide
1 block
Lesson & BioLab

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National Science Content Standards: UCP.1–3, UCP.5; A.1, A.2; C.1, C.5; G.1–3

Objectives

- **Identify** 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 structure of plant and animal cells.

State/local objectives: _____

Lesson Resources

_____ Section Focus Transparency 17 and Master, *TCR/URB*
_____ Basic Concepts Transparency 7 and Master, *TCR/URB*
_____ *MiniLab Worksheet*, p. 42 *URB*
_____ *BioLab Worksheet*, pp. 43–44 *URB*
_____ *Concept Mapping*, p. 55 *URB*
_____ *Reinforcement and Study Guide*, *URB* English, pp. 49–50; Spanish, pp. 53–54
_____ Reteaching Skills Transparency 10 and Master, *TCR/URB*

Multimedia Resources

_____ **Interactive Chalkboard CD-ROM:** Section 7.3 Presentation
_____ **MindJogger Videoquizzes**, Ch. 7
_____ **Guided Reading Audio Summaries MP3**
_____ **Virtual Labs CD-ROM** Virtual Lab: *Cellular Pursuit*
_____ *Using the Internet in the Science Classroom*, *TCR*
_____ Glencoe Science Web site: **bdol.glencoe.com**

Optional Resources

_____ *Critical Thinking/Problem Solving*, p. 56 *URB*
_____ *Inside Story Poster*, *TCR*

Lesson Plan

Activity	Resources	Suggested Time
Classroom Management • Have students complete the Bellringer for Section 7.3. • Have students check homework answers.	Section Focus Transparency 17 and Master, *TCR/URB* *TWE*, pp. 178, 191–193	5 minutes
Discussion • Answer homework questions.	*TWE*, pp. 178, 191–193	5 minutes
Core Lesson • Teach the main concepts of Section 7.3. • Have students do the BioLab experiment and answer the Analyze and Conclude questions.	*TWE*, pp. 179–187 *SE*, pp. 188–189	40 minutes
In-Class Check • Assess students' answers to the BioLab, and discuss their results. • Answer questions on Chapter 7 in preparation for the test.	*TWE*, p. 189 *TWE*, pp. 171–193	20 minutes
Homework • Have students complete Section 7.3 Assessment. • Assign relevant questions from Chapter 7 Assessment.	*SE*, p. 187 *SE*, pp. 191–193	10 minutes
Closing • Assess students with the Assessment activity.	*TWE*, p. 189	10 minutes

[total = 90 minutes]

Block Schedule Planning Guide
Review and Assessment

A View of the Cell

Pacing Guide
1/2 block
Review/Assessment

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Assessment Resources

_____ *Chapter Assessment*, Ch. 7 *URB*
_____ *Performance Assessment in the Biology Classroom*, *TCR*
_____ *Alternate Assessment in the Science Classroom*, *TCR*

Multimedia Resources

_____ **MindJogger Videoquizzes**, Ch. 7
_____ **Exam*View*®Pro Testmaker CD-ROM,** Ch. 7
_____ **Interactive Chalkboard CD-ROM:** Ch. 7 Assessment

Lesson Plan

Activity	Resources	Suggested Time
Classroom Management • Have students check homework answers.	*TWE*, p. 187 *TWE*, pp. 191–193	5 minutes
Reviewing the Chapter • Answer homework questions. • Answer any final questions about Chapter 7.	*TWE*, pp. 171–193	5 minutes
Assessment • Distribute the test and allow students to work quietly.	*Chapter Assessment*, pp. 69–74 *URB*	30–35 minutes
Closing • As students complete the test, have them read the Chapter 8 Opener. • If students have time, let them explore the Internet connection for Chapter 8.	*SE*, p. 194 **bdol.glencoe.com**	0–5 minutes

[total = 45 minutes]