

# Cellular Transport and the Cell Cycle

## 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
1	8.1 Cellular Transport
2	8.2 Cell Growth and Reproduction
0.5	Chapter Assessment

# Block Schedule Planning Guide

## 8.1

# Cellular Transport

pages 195–200

### Pacing Guide

1 block

Lesson & MiniLab

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

**National Science Content Standards:** UCP.1–3, UCP.5; A.1, A.2; B.6, C.1, C.5

### 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.

State/local objectives: \_\_\_\_\_

### Lesson Resources

- \_\_\_\_\_ Section Focus Transparency 18 and Master, *TCR/URB*
- \_\_\_\_\_ Basic Concepts Transparency 8, 9 and Master, *TCR/URB*
- \_\_\_\_\_ *MiniLab Worksheet*, p. 79 *URB*
- \_\_\_\_\_ *Concept Mapping*, p. 93 *URB*
- \_\_\_\_\_ *Reinforcement and Study Guide*, *URB* English, p. 85; Spanish, p. 89
- \_\_\_\_\_ Reteaching Skills Transparencies 11–12 and Masters, *TCR/URB*

### Multimedia Resources

- \_\_\_\_\_ **Interactive Chalkboard CD-ROM:** Section 8.1 Presentation
- \_\_\_\_\_ **MindJogger Videoquizzes**, Ch.8
- \_\_\_\_\_ **Guided Reading Audio Summaries MP3**
- \_\_\_\_\_ *Using the Internet in the Science Classroom*, *TCR*
- \_\_\_\_\_ Glencoe Science Web site: [bdol.glencoe.com](http://bdol.glencoe.com)

### Optional Resources

- \_\_\_\_\_ *Laboratory Manual*, pp. 43–44 *TCR*

### Lesson Plan

Activity	Resources	Suggested Time
<b>Classroom Management</b> <ul style="list-style-type: none"> <li>• Distribute the corrected Chapter 7 tests while students complete the Bellringer for Section 8.1.</li> </ul>	Section Focus Transparency 18 and Master, <i>TCR/URB</i>	5 minutes
<b>Discussion</b> <ul style="list-style-type: none"> <li>• Answer Chapter 7 test questions.</li> </ul>	<i>Chapter Assessment</i> , pp. 183–184 <i>URB</i>	5 minutes
<b>Core Lesson</b> <ul style="list-style-type: none"> <li>• Introduce Chapter 8 with the Two-Minute Chapter Launcher.</li> <li>• Teach the main concepts of Section 8.1.</li> <li>• Have students complete MiniLab 8.1.</li> </ul>	<i>TWE</i> , p. 194 <i>TWE</i> , pp. 195–200 <i>SE</i> , p. 198	35 minutes
<b>In-Class Check</b> <ul style="list-style-type: none"> <li>• Assess students' answers and discuss their results for MiniLab 8.1.</li> <li>• Do the Check for Understanding and Reteach strategies.</li> </ul>	<i>TWE</i> , p. 198 <i>TWE</i> , p. 200	25 minutes
<b>Homework</b> <ul style="list-style-type: none"> <li>• Have students complete Section 8.1 Assessment.</li> <li>• Assign relevant questions from Chapter 8 Assessment.</li> </ul>	<i>SE</i> , p. 200 <i>SE</i> , pp. 217–219	10 minutes
<b>Closing</b> <ul style="list-style-type: none"> <li>• Assess students with the Modified Assessment.</li> </ul>	<i>TWE</i> , p. 200	10 minutes

[total = 90 minutes]

# Block Schedule Planning Guide

## 8.2

# Cell Growth and Reproduction

pages 201–210

### Pacing Guide

2 blocks

Lesson & BioLab

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

### 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.

State/local objectives: \_\_\_\_\_

### Lesson Resources

- \_\_\_\_\_ Section Focus Transparency 19 and Master, *TCR/URB*
- \_\_\_\_\_ Basic Concepts Transparency 10 and Master, *TCR/URB*
- \_\_\_\_\_ *MiniLab Worksheet*, p. 80 *URB*
- \_\_\_\_\_ *BioLab Worksheet*, pp. 81–82 *URB*
- \_\_\_\_\_ *Reinforcement and Study Guide*, *URB* English, pp. 86–87; Spanish, pp. 90–91
- \_\_\_\_\_ Reteaching Skills Transparency 13 and Master, *TCR/URB*

### Multimedia Resources

- \_\_\_\_\_ **Interactive Chalkboard CD-ROM:** Section 8.2 Presentation
- \_\_\_\_\_ **MindJogger Videoquizzes**, Ch. 8
- \_\_\_\_\_ **Guided Reading Audio Summaries MP3**
- \_\_\_\_\_ **Virtual Labs CD-ROM**  
Virtual Lab: *Cell Reproduction*
- \_\_\_\_\_ *Using the Internet in the Science Classroom*, *TCR*
- \_\_\_\_\_ Glencoe Science Web site: **bdol.glencoe.com**

### Optional Resources

- \_\_\_\_\_ *Laboratory Manual*, pp. 45–48 *TCR*

### Lesson Plan

Activity	Resources	Suggested Time
<b>Classroom Management</b> <ul style="list-style-type: none"> <li>• Have students complete the Bellringer for Section 8.2.</li> <li>• Have students check homework answers.</li> </ul>	Section Focus Transparency 19 and Master, <i>TCR/URB</i> <i>TWE</i> , pp. 200, 217–219	10 minutes
<b>Discussion</b> <ul style="list-style-type: none"> <li>• Answer homework questions.</li> </ul>	<i>TWE</i> , pp. 200, 217–219	5 minutes
<b>Core Lesson</b> <ul style="list-style-type: none"> <li>• Teach the main concepts of Section 8.2.</li> <li>• Use the Visual Learning strategies for the Inside Story, and discuss the Thinking Critically question.</li> </ul>	<i>TWE</i> , pp. 201–210 <i>TWE</i> , p. 205	70 minutes
<b>In-Class Check</b> <ul style="list-style-type: none"> <li>• Have students complete the BioLab and answer the Analyze and Conclude questions.</li> <li>• Check students' answers to the BioLab questions, and discuss their results.</li> <li>• Answer questions on Chapter 8 in preparation for the test.</li> </ul>	<i>SE</i> , pp. 214–215 <i>TWE</i> , pp. 214–215 <i>TWE</i> , pp. 195–219	65 minutes
<b>Homework</b> <ul style="list-style-type: none"> <li>• Have students complete Section 8.2 Assessment.</li> <li>• Assign relevant questions from Chapter 8 Assessment.</li> </ul>	<i>SE</i> , p. 210 <i>SE</i> , pp. 217–219	20 minutes
<b>Closing</b> <ul style="list-style-type: none"> <li>• Assess students with the Extension activity.</li> </ul>	<i>TWE</i> , p. 205	10 minutes

[total = 180 minutes]

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## Pacing Guide

1/2 block

Review/Assessment

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Dynamics of Life, *URB* = Unit  
Resources Booklet

### Assessment Resources

- \_\_\_\_\_ *Chapter Assessment*, Ch. 8 *URB*
- \_\_\_\_\_ *Performance Assessment in the Biology Classroom*, *TCR*
- \_\_\_\_\_ *Alternate Assessment in the Science Classroom*, *TCR*

### Multimedia Resources

- \_\_\_\_\_ *MindJogger Videoquizzes*, Ch. 8
- \_\_\_\_\_ *ExamView®Pro Testmaker CD-ROM*, Ch. 8
- \_\_\_\_\_ *Interactive Chalkboard CD-ROM: Ch. 8*  
Assessment

### Lesson Plan

Activity	Resources	Suggested Time
<b>Classroom Management</b> <ul style="list-style-type: none"> <li>• Have students check homework answers.</li> </ul>	<i>TWE</i> , p. 210 <i>TWE</i> , pp. 217–219	5 minutes
<b>Reviewing the Chapter</b> <ul style="list-style-type: none"> <li>• Answer homework questions.</li> <li>• Answer any final questions about Chapter 8.</li> </ul>	<i>TWE</i> , pp. 195–219	5 minutes
<b>Assessment</b> <ul style="list-style-type: none"> <li>• Distribute the test and allow students to work quietly.</li> </ul>	<i>Chapter Assessment</i> , pp. 111–116 <i>URB</i>	30–35 minutes
<b>Closing</b> <ul style="list-style-type: none"> <li>• As students complete the test, let them explore the Internet connection for Chapter 9</li> </ul>	<b>bdol.glencoe.com</b>	0–5 minutes

[total = 45 minutes]