

# Echinoderms and Invertebrate Chordates

## 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	29.1 Echinoderms
0.5	Chapter Assessment

# Block Schedule Planning Guide

## 29.1

# Echinoderms

pages 763–769

### Pacing Guide

1/2 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.1–5; A.1, A.2; C.3, C.5, C.6

### Objectives

- **Compare** similarities and differences among the classes of echinoderms.
- **Interpret** the evidence biologists have for determining that echinoderms are assessment relatives of chordates.

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

### Lesson Resources

- \_\_\_\_\_ Section Focus Transparency 71 and Master, *TCR/URB*
- \_\_\_\_\_ Basic Concepts Transparencies 50–51 and Masters, *TCR/URB*
- \_\_\_\_\_ *MiniLab Worksheet*, p. 135 *URB*
- \_\_\_\_\_ *Reinforcement and Study Guide*, *URB* English, pp. 139–141; Spanish, pp. 143–145

- \_\_\_\_\_ **MindJogger Videoquizzes**, Ch. 29
- \_\_\_\_\_ **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. 181–184, 185–186 *TCR*
- \_\_\_\_\_ *Critical Thinking/Problem Solving*, p. 148 *URB*

### Multimedia Resources

- \_\_\_\_\_ **Interactive Chalkboard CD-ROM:** Section 29.1 Presentation

### Lesson Plan

Activity	Resources	Suggested Time
<b>Classroom Management</b> <ul style="list-style-type: none"> <li>• Distribute the corrected Chapter 28 tests while students complete the Bellringer for Section 29.1.</li> </ul>	Section Focus Transparency 71 and Master, <i>TCR/URB</i>	5 minutes
<b>Discussion</b> <ul style="list-style-type: none"> <li>• Answer Chapter 28 test questions.</li> </ul>	<i>Chapter Assessment</i> , pp. 202–203 <i>URB</i>	5 minutes
<b>Core Lesson</b> <ul style="list-style-type: none"> <li>• Introduce Chapter 29 with the Two-Minute Chapter Launcher.</li> <li>• Teach the main concepts of Section 29.1.</li> <li>• Use the Teaching Strategies to discuss the Inside Story.</li> <li>• Have students complete MiniLab 29.1.</li> </ul>	<i>TWE</i> , p. 762 <i>TWE</i> , pp. 763–769 <i>TWE</i> , p. 766 <i>SE</i> , p. 764	20 minutes
<b>In-Class Check</b> <ul style="list-style-type: none"> <li>• Discuss the MiniLab and assess students' results.</li> <li>• Do the Check for Understanding and Reteach Strategies.</li> <li>• Answer questions on Chapter 29 in preparation for the test.</li> </ul>	<i>TWE</i> , p. 764 <i>TWE</i> , p. 769 <i>TWE</i> , pp. 763–781	5 minutes
<b>Homework</b> <ul style="list-style-type: none"> <li>• Have students complete Section 29.1 Assessment.</li> <li>• Assign relevant questions from Chapter 29 Assessment.</li> </ul>	<i>SE</i> , p. 769 <i>SE</i> , pp. 779–781	5 minutes
<b>Closing</b> <ul style="list-style-type: none"> <li>• Assess students with the Word Origin activity.</li> </ul>	<i>TWE</i> , p. 763	5 minutes

[total = 45 minutes]

# Echinoderms and Invertebrate Chordates

## Pacing Guide

1/2 block

Review/Assessment

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Edition, TCR = Teacher Classroom  
Resources, BDOL = Biology: The  
Dynamics of Life, URB = Unit  
Resources Booklet

### Assessment Resources

- \_\_\_\_\_ *Chapter Assessment*, Ch. 29 URB
- \_\_\_\_\_ *Performance Assessment in the Biology Classroom*, TCR
- \_\_\_\_\_ *Alternate Assessment in the Science Classroom*, TCR

### Multimedia Resources

- \_\_\_\_\_ *MindJogger Videoquizzes*, Ch. 29
- \_\_\_\_\_ *ExamView®Pro Testmaker CD-ROM*, Ch. 29
- \_\_\_\_\_ *Interactive Chalkboard CD-ROM:*  
Ch. 29 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> , pp. 769, 779–781	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 29.</li> </ul>	<i>TWE</i> , pp. 763–781	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. 157–162 URB	30 minutes
<b>Closing</b> <ul style="list-style-type: none"> <li>• As students complete the test, have them read the Chapter 30 Opener.</li> <li>• If students have time, let them explore the Internet connection for Chapter 30.</li> </ul>	SE, p. 792  <b>bdol.glencoe.com</b>	5 minutes

[total = 45 minutes]

## Pacing Guide

2 blocks

BioDigest

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**National Science Content Standards:** UCP.1–5; C.3–6

### Lesson Resources

\_\_\_\_\_ *Reinforcement and Study Guide, URB*  
English, pp. 165–166; Spanish, pp. 167–168

### Multimedia Resources

\_\_\_\_\_ *Using the Internet in the Science Classroom, TCR*  
\_\_\_\_\_ Glencoe Science Web site: [bdol.glencoe.com](http://bdol.glencoe.com)

### Lesson Plan

Activity	Resources	Suggested Time
<b>Classroom Management</b> <ul style="list-style-type: none"> <li>Have students complete the Focus Bellringer activity.</li> </ul>	<i>TWE</i> , p. 782	15 minutes
<b>Discussion</b> <ul style="list-style-type: none"> <li>If the BioDigest is being used as an overview for Unit 8 or in place of Unit 8, return Chapter 24 tests and answer any test questions.</li> </ul>	<i>Chapter Assessment</i> , p. 210 <i>URB</i>	15 minutes
<b>Core Lesson</b> <ul style="list-style-type: none"> <li>Introduce BioDigest 8 with the Quick Demo.</li> <li>Teach the main concepts of BioDigest 8.</li> <li>Use the Visual Learning strategies.</li> </ul>	<i>TWE</i> , p. 785 <i>TWE</i> , pp. 782–787 <i>TWE</i> , pp. 783, 785	90 minutes
<b>In-Class Check</b> <ul style="list-style-type: none"> <li>Review concepts with the Reinforcement and Study Guides.</li> <li>Do the Check for Understanding and Reteach strategies.</li> </ul>	<i>Reinforcement and Study Guide, URB</i> English, p. 165–166; Spanish, p. 167–168 <i>TWE</i> , p. 787	30 minutes
<b>Homework</b> <ul style="list-style-type: none"> <li>Assign the Assessment.</li> </ul>	<i>SE</i> , p. 787	20 minutes
<b>Closing</b> <ul style="list-style-type: none"> <li>Assess students with the Visual Learning activity.</li> </ul>	<i>TWE</i> , p. 785	10 minutes

[total = 180 minutes]