



## 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.

<b>Period</b>	<b>Content</b>
0.5	23.1 Plant Cells and Tissues
1	23.2 Roots, Stems, and Leaves
0.5	23.3 Plant Responses
0.5	Chapter Assessment

# Block Schedule Planning Guide

## 23.1

# Plant Cells and Tissues

pages 625–631

**National Science Content Standards:** UCP.1, UCP.2, UCP.5; A.1, A.2; C.1, C.5

### Pacing Guide

1/2 period

Lesson & MiniLab

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

### Objectives

- **Identify** the major types of plant cells.
- **Distinguish** among the functions of the different types of plant tissues.

**Georgia QCC:** 1.1, 1.2, 1.3, 1.4, 2.1, 19.2

### Lesson Resources

- \_\_\_\_\_ Section Focus Transparency 55 and Master
- \_\_\_\_\_ *BioLab and MiniLab Worksheets*, p. 105 *TCR*
- \_\_\_\_\_ *Concept Mapping*, p. 23 *TCR*
- \_\_\_\_\_ *Reinforcement and Study Guide*, p. 101 *TCR*
- \_\_\_\_\_ *Content Mastery*, p. 114 *TCR*
- \_\_\_\_\_ Reteaching Skills Transparency 32 and Master

- \_\_\_\_\_ *MindJogger Videoquizzes*, Ch. 23
- \_\_\_\_\_ *English/Spanish Audiocassettes*, Section 23.1
- \_\_\_\_\_ *Using the Internet in the Science Classroom*, *TCR*
- \_\_\_\_\_ Glencoe Science Web Site:  
[ga.science.glencoe.com](http://ga.science.glencoe.com)

### Optional Resources

- \_\_\_\_\_ *Spanish Resources*

### Multimedia Resources

- \_\_\_\_\_ *BDOL CD-ROM* Section 23.1 Summary

### Lesson Plan

Activity	Resources	Suggested Time
<b>Classroom Management</b> <ul style="list-style-type: none"> <li>• Distribute the corrected Chapter 22 tests while students complete the Bellringer for Section 23.1.</li> </ul>	Section Focus Transparency 55 and Master	5 minutes
<b>Discussion</b> <ul style="list-style-type: none"> <li>• Answer Chapter 22 test questions.</li> </ul>	<i>Chapter Assessment</i> , pp. 299–301 <i>TCR</i>	5 minutes
<b>Core Lesson</b> <ul style="list-style-type: none"> <li>• Introduce Chapter 23 with the Getting Started Demo.</li> <li>• Teach the main concepts of Section 23.1.</li> <li>• Use the Teaching Strategies to discuss the Inside Story.</li> <li>• Have students complete MiniLab 23-1.</li> </ul>	<i>TWE</i> , p. 624 <i>TWE</i> , pp. 624–631 <i>TWE</i> , p. 628 <i>SE</i> , p. 629	20 minutes
<b>In-Class Check</b> <ul style="list-style-type: none"> <li>• Discuss the MiniLab and assess students' results.</li> <li>• Reinforce Section 23.1 concepts with the Content Mastery worksheet.</li> <li>• Review Section 23.1 concepts with the Reteaching Skills Transparency.</li> </ul>	<i>TWE</i> , p. 629 <i>Content Mastery</i> , p. 114 <i>TCR</i>  Reteaching Skills Transparency 32 and Master	5 minutes
<b>Homework</b> <ul style="list-style-type: none"> <li>• Have students complete Section 23.1 Assessment.</li> <li>• Assign the Problem Solving Lab 23-1. Instruct students to answer the Thinking Critically questions in their journals.</li> <li>• Assign relevant questions from Chapter 23 Assessment.</li> </ul>	<i>SE</i> , p. 631 <i>SE</i> , p. 630  <i>SE</i> , pp. 649–651	5 minutes
<b>Closing</b> <ul style="list-style-type: none"> <li>• Assess students with the Close Activity.</li> </ul>	<i>TWE</i> , p. 631	5 minutes

[total = 45 minutes]

# Block Schedule Planning Guide

## 23.2

# Roots, Stems, and Leaves

pages 632–641

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

### Pacing Guide

1 period

Lesson & MiniLab

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

### Objectives

- Identify the structures of roots, stems, and leaves.
- Describe the functions of roots, stems and leaves.

**Georgia QCC:** 1.1, 1.3, 1.4, 19.2

### Lesson Resources

- \_\_\_\_\_ Section Focus Transparency 56 and Master
- \_\_\_\_\_ Basic Concepts Transparency 37 and Master
- \_\_\_\_\_ *BioLab and MiniLab Worksheets*, p. 106 TCR
- \_\_\_\_\_ *Reinforcement and Study Guide*, pp. 102–103 TCR
- \_\_\_\_\_ *Content Mastery*, pp. 114–115 TCR
- \_\_\_\_\_ Reteaching Skills Transparencies 33–34 and Master

- \_\_\_\_\_ *MindJogger Videoquizzes*, Ch. 23
- \_\_\_\_\_ *English/Spanish Audiocassettes*, Section 23.2
- \_\_\_\_\_ *BDOL Videodisc*, Disc 1, Side 2
- \_\_\_\_\_ *Using the Internet in the Science Classroom*, TCR
- \_\_\_\_\_ Glencoe Science Web Site:  
[ga.science.glencoe.com](http://ga.science.glencoe.com)

### Multimedia Resources

- \_\_\_\_\_ BDOL CD-ROM Section 23.2 Summary

### Optional Resources

- \_\_\_\_\_ *Laboratory Manual*, pp. 161–166, 167–170 TCR
- \_\_\_\_\_ *Critical Thinking/Problem Solving*, p. 23 TCR
- \_\_\_\_\_ *Spanish Resources*

### Lesson Plan

Activity	Resources	Suggested Time
<b>Classroom Management</b> <ul style="list-style-type: none"> <li>• Have students complete the Bellringer for Section 23.2.</li> <li>• Have students check homework answers.</li> </ul>	Section Focus Transparency 56 and Master <i>TWE</i> , pp. 630, 631, 649–651	10 minutes
<b>Discussion</b> <ul style="list-style-type: none"> <li>• Answer homework questions.</li> </ul>	<i>TWE</i> , pp. 630, 631, 649–651	5 minutes
<b>Core Lesson</b> <ul style="list-style-type: none"> <li>• Teach the main concepts of Section 23.2.</li> <li>• Have students complete MiniLab 23-2</li> </ul>	<i>TWE</i> , pp. 632–640 <i>SE</i> , p. 640	25 minutes
<b>In-Class Check</b> <ul style="list-style-type: none"> <li>• Have students complete Problem-Solving Lab 23-2</li> <li>• Review Section 23.2 concepts with the Reteaching Skills Transparencies.</li> </ul>	<i>SE</i> , p. 639 Reteaching Skills Transparencies 33–34 and Master	10 minutes
<b>Homework</b> <ul style="list-style-type: none"> <li>• Have students complete Section 23.2 Assessment.</li> <li>• Assign relevant questions from Chapter 23 Assessment.</li> </ul>	<i>SE</i> , p. 641 <i>SE</i> , pp. 649–651	30 minutes
<b>Closing</b> <ul style="list-style-type: none"> <li>• Assess students with the Close Activity.</li> </ul>	<i>TWE</i> , p. 641	10 minutes

[total = 45 minutes]

# Block Schedule Planning Guide

## 23.3

# Plant Responses

pages 642–645

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

### Objectives

- **Identify** the major types of plant hormones.
- **Analyze** the different types of plant responses.

**Georgia QCC:** 1.1, 1.2, 1.3, 1.4, 2.1, 3.2, 19.2

### Lesson Resources

- \_\_\_\_\_ Section Focus Transparency 57 and Master
- \_\_\_\_\_ *BioLab and MiniLab Worksheets*, pp. 107–108 *TCR*
- \_\_\_\_\_ *Reinforcement and Study Guide*, p. 104 *TCR*
- \_\_\_\_\_ *Content Mastery*, p. 115 *TCR*

### Multimedia Resources

- \_\_\_\_\_ **BDOL CD-ROM** Section 23.3 Summary
- \_\_\_\_\_ **MindJogger Videoquizzes**, Ch. 23

- \_\_\_\_\_ **English/Spanish Audiocassettes**, Section 23.3
- \_\_\_\_\_ **BDOL Videodisc**, Disc 1, Side 2
- \_\_\_\_\_ *Using the Internet in the Science Classroom*, *TCR*
- \_\_\_\_\_ **Glencoe Science Web Site:**  
[ga.science.glencoe.com](http://ga.science.glencoe.com)

### Optional Resources

- \_\_\_\_\_ *Spanish Resources*

### Pacing Guide

1/2 period

Lesson & BioLab

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### Lesson Plan

Activity	Resources	Suggested Time
<b>Classroom Management</b> <ul style="list-style-type: none"> <li>• Have students complete the Bellringer for Section 23.3.</li> <li>• Have students check homework answers.</li> </ul>	Section Focus Transparency 56 and Master <i>TWE</i> , pp. 641, 649–651	5 minutes
<b>Discussion</b> <ul style="list-style-type: none"> <li>• Answer homework questions.</li> </ul>	<i>TWE</i> , pp. 641, 649–651	5 minutes
<b>Core Lesson</b> <ul style="list-style-type: none"> <li>• Introduce section 23.3 with the Quick Demo.</li> <li>• Teach the main concepts of Section 23.3.</li> <li>• Have students complete BioLab.</li> </ul>	<i>TWE</i> , p. 643 <i>TWE</i> , pp. 642–644 <i>SE</i> , pp. 646–647	20 minutes
<b>In-Class Check</b> <ul style="list-style-type: none"> <li>• Discuss the BioLab and assess students' results.</li> <li>• Reinforce Section 23.3 concepts with the Content Mastery worksheet.</li> <li>• Do the Check for Understanding and Reteach Strategies.</li> </ul>	<i>TWE</i> , p. 646–647 <i>Content Mastery</i> , p. 115 <i>TCR</i> <i>TWE</i> , p. 645	5 minutes
<b>Homework</b> <ul style="list-style-type: none"> <li>• Have students complete Section 23.3 Assessment.</li> <li>• Assign relevant questions from Chapter 23 Assessment.</li> </ul>	<i>SE</i> , p. 645 <i>SE</i> , pp. 649–651	5 minutes
<b>Closing</b> <ul style="list-style-type: none"> <li>• Assess students with the Close Activity.</li> </ul>	<i>TWE</i> , p. 645	5 minutes

[total = 45 minutes]

## Pacing Guide

1/2 period

Review/Assessment

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Geographic Society videodisc,  
*BDOL* = Biology: The Dynamics  
of Life

### Assessment Resources

- \_\_\_\_\_ *Chapter Assessment*, Ch. 23 *TCR*
- \_\_\_\_\_ *Performance Assessment in the Biology Classroom*, *TCR*
- \_\_\_\_\_ *Alternate Assessment in the Science Classroom*, *TCR*
- \_\_\_\_\_ *5 Days to the Georgia High School Graduation Test*, *TCR*

### Multimedia Resources

- \_\_\_\_\_ *MindJogger Videoquizzes*, Ch. 23
- \_\_\_\_\_ *ExamView® Pro Software*, Ch. 23
- \_\_\_\_\_ *BDOL Interactive CD-ROM* Ch. 23 quiz

### 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. 645, 649–651	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 23.</li> </ul>	<i>TWE</i> , pp. 624–651	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. 133–138 <i>TCR</i>	30 minutes
<b>Closing</b> <ul style="list-style-type: none"> <li>• As students complete the test, have them read the Chapter 24 Opener.</li> <li>• If students have time, let them explore the Internet connection for Chapter 24.</li> </ul>	<i>SE</i> , p. 652  <a href="http://ga.science.glencoe.com">ga.science.glencoe.com</a>	5 minutes

[total = 45 minutes]