

What is a plant?

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	21.1 Adapting to Life on Land
0.5	21.2 Survey of the Plant Kingdom
0.5	Chapter Assessment

Block Schedule Planning Guide 21.1

Adapting to Life on Land

pages 559–563

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

Objectives

- **Compare and contrast** characteristics of algae and plants.
- **Identify and evaluate** structural adaptations of plants to their land environments.
- **Describe** the alternation of generation in land plants.

State/local objectives: _____

Lesson Resources

- _____ Section Focus Transparency 50 and Master, *TCR/URB*
- _____ *MiniLab Worksheet*, p. 17 *URB*
- _____ *Concept Mapping*, p. 15 *URB*
- _____ *Reinforcement and Study Guide*, *URB* English, pp. 7–8; Spanish, pp. 11–12

- _____ *MindJogger Videoquizzes*, Ch. 21
- _____ **Guided Reading Audio Summaries MP3**
- _____ **Virtual Labs CD-ROM**
Virtual Lab: *Survey of the Plant Kingdom*
- _____ *Using the Internet in the Science Classroom*, *TCR*
- _____ Glencoe Science Web site: bdol.glencoe.com

Multimedia Resources

- _____ **Interactive Chalkboard CD-ROM:**
Section 21.1 Presentation

Optional Resources

- _____ *Laboratory Manual*, pp. 129–132 *TCR*
- _____ *Probeware Labs*, pp. 17–20 *TCR*

Lesson Plan

Activity	Resources	Suggested Time
Classroom Management <ul style="list-style-type: none"> • Distribute the corrected Chapter 20 tests while students complete the Bellringer for Section 21.1. 	Section Focus Transparency 50 and Master, <i>TCR/URB</i>	10 minutes
Discussion <ul style="list-style-type: none"> • Answer Chapter 20 test questions. 	<i>Chapter Assessment</i> , pp. 142–143 <i>URB</i>	5 minutes
Core Lesson <ul style="list-style-type: none"> • Introduce Chapter 21 with the Two-Minute Chapter Launcher. • Teach the main concepts of Section 21.1. • Have students complete MiniLab 21.1. 	<i>TWE</i> , p. 558 <i>TWE</i> , pp. 559–563 <i>SE</i> , p. 561	35 minutes
In-Class Check <ul style="list-style-type: none"> • Discuss the MiniLab and assess students' results. • Do the Check for Understanding and Reteach Strategies. 	<i>TWE</i> , p. 561 <i>TWE</i> , p. 563	20 minutes
Homework <ul style="list-style-type: none"> • Have students complete Section 21.1 Assessment. • Assign the Problem Solving Lab 21.1. Instruct students to answer the Thinking Critically questions in their journals. • Assign relevant questions from Chapter 21 Assessment. 	<i>SE</i> , p. 563 <i>SE</i> , p. 563 <i>SE</i> , pp. 573–575	15 minutes
Closing <ul style="list-style-type: none"> • Assess students with the Extension activity. 	<i>TWE</i> , p. 563	5 minutes

[total = 90 minutes]

Block Schedule Planning Guide

21.2

Survey of the Plant Kingdom

pages 564–569

Pacing Guide

1/2 block

Lesson & BioLab

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.2, UCP.4, UCP.5; A.1, A.2; B.3; C.3–5; E.1, E.2; F.1, F.3, F.6; G.1–3

Objectives

- **Describe** the phylogenic relationships among divisions of plants.
- **Identify** the plant kingdom divisions.

State/local objectives: _____

Lesson Resources

- _____ Section Focus Transparency 51 and Master, *TCR/URB*
- _____ Basic Concepts Transparency 33 and Master, *TCR/URB*
- _____ *MiniLab Worksheet*, p. 4 *URB*
- _____ *BioLab Worksheet*, pp. 5–6 *URB*
- _____ *Reinforcement and Study Guide*, *URB* English, pp. 9–10; Spanish, pp. 13–14

- _____ **MindJogger Videoquizzes**, Ch. 21
- _____ **Guided Reading Audio Summaries MP3**
- _____ *Using the Internet in the Science Classroom*, *TCR*
- _____ Glencoe Science Web site: bdol.glencoe.com

Optional Resources

- _____ *Critical Thinking/Problem Solving*, p. 16 *URB*

Multimedia Resources

- _____ **Interactive Chalkboard CD-ROM:** Section 21.2 Presentation

Lesson Plan

Activity	Resources	Suggested Time
Classroom Management <ul style="list-style-type: none"> • Have students complete the Bellringer for Section 21.2. • Have students check homework answers. 	Section Focus Transparency 51 and Master, <i>TCR/URB</i> <i>TWE</i> , pp. 563, 573–575	5 minutes
Discussion <ul style="list-style-type: none"> • Answer homework questions. 	<i>TWE</i> , pp. 563, 573–575	5 minutes
Core Lesson <ul style="list-style-type: none"> • Teach the main concepts of Section 21.2. • Have students complete BioLab. (Note: this lab may take more than one block to complete. Be sure to check students' progress.) 	<i>TWE</i> , pp. 564–569 <i>TWE</i> , pp. 570–571	20 minutes
In-Class Check <ul style="list-style-type: none"> • Do the Check for Understanding and Reteach Strategies. • Answer questions on Chapter 21 in preparation for the test. 	<i>TWE</i> , p. 569 <i>TWE</i> , pp. 559–575	5 minutes
Homework <ul style="list-style-type: none"> • Have students complete Section 21.2 Assessment. • Assign relevant questions from Chapter 21 Assessment. 	<i>SE</i> , p. 569 <i>SE</i> , pp. 573–575	5 minutes
Closing <ul style="list-style-type: none"> • Assess students with the Assessment activity. 	<i>TWE</i> , p. 569	5 minutes

[total = 45 minutes]

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1/2 block

Review/Assessment

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Assessment Resources

- _____ *Chapter Assessment*, Ch. 21 *URB*
- _____ *Performance Assessment in the Biology Classroom*, *TCR*
- _____ *Alternate Assessment in the Science Classroom*, *TCR*

Multimedia Resources

- _____ *MindJogger Videoquizzes*, Ch. 21
- _____ *ExamView®Pro Testmaker CD-ROM*, Ch. 21
- _____ *Interactive Chalkboard CD-ROM*:
Ch. 21 Assessment

Lesson Plan

Activity	Resources	Suggested Time
Classroom Management <ul style="list-style-type: none"> • Have students check homework answers. 	<i>SE</i> , pp. 569, 573–575	5 minutes
Reviewing the Chapter <ul style="list-style-type: none"> • Answer homework questions. • Answer any final questions about Chapter 21. 	<i>TWE</i> , pp. 559–575	5 minutes
Assessment <ul style="list-style-type: none"> • Distribute the test and allow students to work quietly. 	<i>Chapter Assessment</i> , pp. 21–26 <i>URB</i>	30 minutes
Closing <ul style="list-style-type: none"> • As students complete the test, have them read the Chapter 22 Opener. • If students have time, let them explore the Internet connection for Chapter 22. 	<i>SE</i> , p. 576 bdol.glencoe.com	5 minutes

[total = 45 minutes]