



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.

Period	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 575–583

National Science Content Standards: UCP.1–5; B.2; C.5, C.6; E.1, E.2; F.3, F.4, F.6; G.1–3

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

- Compare and contrast characteristics of algae and plants.
- List the characteristics of plants that adapt them for life on land.
- Describe the alternation of generation in land plants.

Georgia QCC: 1.1, 1.3, 1.4, 2.1, 3.2, 6.3, 12.1, 18.1, 18.2, 18.3, 19.3, 19.4

Lesson Resources

- _____ Section Focus Transparency 50 and Master
- _____ *BioLab and MiniLab Worksheets*, p. 577 TCR
- _____ *Concept Mapping*, p. 21 TCR
- _____ *Reinforcement and Study Guide*, pp. 93–94 TCR
- _____ *Content Mastery*, p. 106 TCR

- _____ English/Spanish Audiocassettes, Section 21.1
- _____ BDOL Videodisc, Disc 1, Side 2
- _____ *Using the Internet in the Science Classroom*, TCR
- _____ Glencoe Science Web Site:
ga.science.glencoe.com

Multimedia Resources

- _____ BDOL CD-ROM Section 21.1 Summary
- _____ MindJogger Videoquizzes, Ch. 21

Optional Resources

- _____ *Laboratory Manual*, pp. 145–148, 149–152 TCR
- _____ *Tech Prep Applications*, pp. 31–32 TCR
- _____ *Critical Thinking/Problem Solving*, p. 21 TCR
- _____ *Spanish Resources*

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	10 minutes
Discussion <ul style="list-style-type: none"> • Answer Chapter 20 test questions. 	<i>Chapter Assessment</i> , pp. 293–295 TCR	5 minutes
Core Lesson <ul style="list-style-type: none"> • Introduce Chapter 21 with the Getting Started Demo. • Teach the main concepts of Section 21.1. • Have students complete MiniLab 21-1. 	TWE, p. 574 TWE, pp. 575–578 SE, p. 577	35 minutes
In-Class Check <ul style="list-style-type: none"> • Discuss the MiniLab and assess students' results. • Reinforce Section 21.1 concepts with the Content Mastery worksheet. • Do the Check for Understanding and Reteach Strategies. 	TWE, p. 577 <i>Content Mastery</i> , p. 106 TCR TWE, p. 579	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. 	SE, p. 579 SE, p. 579 SE, pp. 593–595	15 minutes
Closing <ul style="list-style-type: none"> • Assess students with the Close Activity. 	TWE, p. 579	5 minutes

[total = 90 minutes]

Block Schedule Planning Guide 21.2

Survey of the Plant Kingdom

pages 584–592

National Science Content Standards: UCP.1, UCP.3–5; A.1, A.2; C.4–6; E.2; F.1, F.3, F.6; G.1–3

Objectives

- Describe the phylogenetic relationships among divisions of plants.
- Identify the twelve plant kingdom divisions.

Georgia QCC: 1.1, 1.2, 2.1, 3.2, 12.1, 13.1, 18.1, 19.1, 19.2, 19.4

Lesson Resources

- _____ Section Focus Transparency 51 and Master
- _____ Basic Concepts Transparency 33 and Master
- _____ *BioLab and MiniLab Worksheets*, pp. 98–100 TCR
- _____ *Reinforcement and Study Guide*, p. 95–96 TCR
- _____ *Content Mastery*, p. 107 TCR

Multimedia Resources

- _____ BDOL CD-ROM Section 21.2 Summary

- _____ *MindJogger Videoquizzes*, Ch. 21
- _____ *English/Spanish Audiocassettes*, Section 21.2
- _____ *Using the Internet in the Science Classroom*, TCR
- _____ Glencoe Science Web Site:
ga.science.glencoe.com

Optional Resources

- _____ *Critical Thinking/Problem Solving*, p. 21 TCR
- _____ *Spanish Resources*

Pacing Guide

1/2 period

Lesson & BioLab

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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 TWE, pp. 579, 584, 593–595	5 minutes
Discussion <ul style="list-style-type: none"> • Answer homework questions. 	TWE, pp. 579, 593–595	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 period to complete. Be sure to check students' progress.) 	TWE, pp. 584–589 TWE, pp. 590–591	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. 	TWE, p. 589 TWE, pp. 573–595	5 minutes
Homework <ul style="list-style-type: none"> • Have students complete Section 21.2 Assessment. • Assign relevant questions from Chapter 21 Assessment. 	SE, p. 589 SE, pp. 593–595	5 minutes
Closing <ul style="list-style-type: none"> • Assess students with the Close Activity. 	TWE, p. 589	5 minutes

[total = 45 minutes]

What Is a Plant?

Pacing Guide

1/2 period

Review/Assessment

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

Assessment Resources

- _____ *Chapter Assessment*, Ch. 21 *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. 21
- _____ *ExamView® Pro Software*, Ch. 21
- _____ *BDOL Interactive CD-ROM* Ch. 21 quiz

Lesson Plan

Activity	Resources	Suggested Time
Classroom Management <ul style="list-style-type: none"> • Have students check homework answers. 	<i>SE</i> , pp. 589, 593–595	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. 573–595	5 minutes
Assessment <ul style="list-style-type: none"> • Distribute the test and allow students to work quietly. 	<i>Chapter Assessment</i> , pp. 121–126 <i>TCR</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. 596 ga.science.glencoe.com	5 minutes

[total = 45 minutes]