

Respiration, Circulation, and Excretion

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	37.1 The Respiratory System
1	37.2 The Circulatory System
0.5	37.3 The Urinary System
0.5	Chapter Assessment

Block Schedule Planning Guide

37.1

The Respiratory System

pages 971–974

Pacing Guide

1 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.1, UCP.2, UCP.5; A.1, A.2; F.1

Objectives

- **Identify** the structures involved in external respiration.
- **Contrast** external and cellular respiration.
- **Explain** the mechanics of breathing.

State/local objectives: _____

Lesson Resources

- _____ Section Focus Transparency 90 and Master, *TCR/URB*
- _____ *BioLab Worksheet*, pp. 129–130 *URB*
- _____ *Reinforcement and Study Guide*, *URB* English, p. 133; Spanish, p. 137

- _____ *MindJogger Videoquizzes*, Ch. 37
- _____ **Guided Reading Audio Summaries MP3**
- _____ *Using the Internet in the Science Classroom*, *TCR*
- _____ Glencoe Science Web site: bdol.glencoe.com

Multimedia Resources

- _____ **Interactive Chalkboard CD-ROM:** Section 37.1 Presentation

Optional Resources

- _____ *Real World BioApplications*, pp. 131–132 *URB*

Lesson Plan

Activity	Resources	Suggested Time
Classroom Management <ul style="list-style-type: none"> • Distribute the corrected Chapter 36 tests while students complete the Bellringer for Section 37.1. 	Section Focus Transparency 90 and Master, <i>TCR/URB</i>	5 minutes
Discussion <ul style="list-style-type: none"> • Answer Chapter 36 test questions. 	<i>Chapter Assessment</i> , pp. 282–283 <i>URB</i>	5 minutes
Core Lesson <ul style="list-style-type: none"> • Introduce Chapter 37 with the Two-Minute Chapter Launcher. • Teach the main concepts of Section 37.1. • Do the Quick Demo. • Have students read the BioLab, follow the Procedure, and answer the Analyze and Conclude questions. 	<i>TWE</i> , p. 970 <i>TWE</i> , pp. 971–974 <i>TWE</i> , p. 972 <i>SE</i> , pp. 964–965	55–60 minutes
In-Class Check <ul style="list-style-type: none"> • Assess students' answers to the BioLab questions and discuss their results. • Do the Check for Understanding and Reteach strategies. • Use the Modified Assessment activity. 	<i>TWE</i> , pp. 964–965 <i>TWE</i> , p. 974 <i>TWE</i> , p. 974	10–15 minutes
Homework <ul style="list-style-type: none"> • Have students complete Section 37.1 Assessment. • Assign Problem-Solving Lab 37.1. • Assign relevant questions from Chapter 37 Assessment. 	<i>SE</i> , p. 974 <i>SE</i> , p. 973 <i>SE</i> , pp. 991–993	5 minutes
Closing <ul style="list-style-type: none"> • Assess students with the Modified Assessment. 	<i>TWE</i> , p. 973	5 minutes

[total = 90 minutes]

Block Schedule Planning Guide

37.2

The Circulatory System

pages 975–984

Pacing Guide

1 block

Lesson & MiniLab

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National Science Content Standards: UCP.1, UCP.2, UCP.5; A.1, A.2; F.1, F.5; G.1

Objectives

- **Distinguish** among the various components of blood and among blood groups.
- **Trace** the route blood takes through the body and heart.
- **Explain** how heart rate is controlled.

State/local objectives: _____

Lesson Resources

- _____ Section Focus Transparency 91 and Master, *TCR/URB*
- _____ Basic Concepts Transparencies 70–72 and Masters, *TCR/URB*
- _____ *MiniLab Worksheet*, pp. 125–126 *URB*
- _____ *Concept Mapping*, p. 141 *URB*
- _____ *Reinforcement and Study Guide*, *URB* English, pp. 134–135; Spanish, pp. 138–139
- _____ Reteaching Skills Transparency 54 and Master, *TCR/URB*

- _____ *MindJogger Videoquizzes*, Ch. 37
- _____ **Guided Reading Audio Summaries MP3**
- _____ **Virtual Labs CD-ROM**
Virtual Lab: *Blood Pressure*
- _____ *Using the Internet in the Science Classroom*, *TCR*
- _____ Glencoe Science Web site: **bdol.glencoe.com**

Optional Resources

- _____ *Laboratory Manual*, pp. 237–240 *TCR*
- _____ *Critical Thinking/Problem Solving*, p. 142 *URB*
- _____ *Inside Story Poster*, *TCR*

Multimedia Resources

- _____ **Interactive Chalkboard CD-ROM:**
Section 37.2 Presentation

Lesson Plan

Activity	Resources	Suggested Time
Classroom Management <ul style="list-style-type: none"> • Have students complete the Bellringer for Section 37.2. • Have students check homework answers. 	Section Focus Transparency 91 and Master, <i>TCR/URB</i> <i>TWE</i> , pp. 974, 991–993	5 minutes
Discussion <ul style="list-style-type: none"> • Answer homework questions. 	<i>TWE</i> , pp. 974, 991–993	5 minutes
Core Lesson <ul style="list-style-type: none"> • To introduce Section 37.2, have students complete MiniLab 37.1. • Teach the main concepts of Section 37.2. • Do the Quick Demo. 	<i>SE</i> , p. 981 <i>TWE</i> , pp. 975–984 <i>TWE</i> , p. 978	35–40 minutes
In-Class Check <ul style="list-style-type: none"> • Have students do the Portfolio: Summarizing Circulation. • Do the Check for Understanding and Reteach strategies. 	<i>TWE</i> , p. 976 <i>TWE</i> , p. 984	20–25 minutes
Homework <ul style="list-style-type: none"> • Have students complete Section 37.2 Assessment. • Assign the Critical Thinking question of the Inside Story. • Assign relevant questions from Chapter 37 Assessment. 	<i>SE</i> , p. 984 <i>SE</i> , p. 982 <i>SE</i> , pp. 991–993	5 minutes
Closing <ul style="list-style-type: none"> • Assess students with the Assessment activity. 	<i>TWE</i> , p. 976	15 minutes

[total = 90 minutes]

Block Schedule Planning Guide

37.3

The Urinary System

pages 985–987

Pacing Guide

1/2 block

Lesson & MiniLab

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

Objectives

- **Describe** the structures and functions of the urinary system.
- **Explain** the kidneys' role in maintaining homeostasis.

State/local objectives: _____

Lesson Resources

- _____ Section Focus Transparency 92 and Master, *TCR/URB*
- _____ Basic Concepts Transparency 73 and Master, *TCR/URB*
- _____ *MiniLab Worksheet*, p. 127 *URB*
- _____ *Reinforcement and Study Guide*, *URB* English, p. 136; Spanish, p. 140

- _____ *MindJogger Videoquizzes*, Ch. 37
- _____ **Guided Reading Audio Summaries MP3**
- _____ *Using the Internet in the Science Classroom*, *TCR*
- _____ Glencoe Science Web site: bdol.glencoe.com

Multimedia Resources

- _____ **Interactive Chalkboard CD-ROM:** Section 37.3 Presentation

Lesson Plan

Activity	Resources	Suggested Time
Classroom Management <ul style="list-style-type: none"> • Have students complete the Bellringer for Section 37.3. • Have students check homework answers. 	Section Focus Transparency 92 and Master, <i>TCR/URB</i> <i>TWE</i> , pp. 984, 991–993	5 minutes
Discussion <ul style="list-style-type: none"> • Answer homework questions. 	<i>TWE</i> , pp. 984, 991–993	5 minutes
Core Lesson <ul style="list-style-type: none"> • Teach the main concepts of Section 37.3. • Have students complete MiniLab 37.2 in small groups. • Do the Quick Demo. 	<i>TWE</i> , pp. 985–987 <i>SE</i> , p. 987 <i>TWE</i> , p. 985	15 minutes
In-Class Check <ul style="list-style-type: none"> • Have students do Using an Analogy. • Do the Check for Understanding and Reteach strategies. • Answer questions on Chapter 37 in preparation for the test. 	<i>TWE</i> , p. 985 <i>TWE</i> , p. 987 <i>TWE</i> , pp. 971–993	10 minutes
Homework <ul style="list-style-type: none"> • Have students complete Section 37.3 Assessment. • Assign relevant questions from Chapter 37 Assessment. 	<i>SE</i> , p. 987 <i>SE</i> , pp. 991–993	5 minutes
Closing <ul style="list-style-type: none"> • Assess students with the Assessment activity. 	<i>TWE</i> , p. 987	5 minutes

[total = 45 minutes]

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Pacing Guide

1/2 block

Review/Assessment

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Resources, *BDOL* = Biology: The
Dynamics of Life, *URB* = Unit
Resources Booklet

Assessment Resources

- _____ *Chapter Assessment*, Ch. 37 *URB*
- _____ *Performance Assessment in the Biology Classroom*, *TCR*
- _____ *Alternate Assessment in the Science Classroom*, *TCR*

Multimedia Resources

- _____ *MindJogger Videoquizzes*, Ch. 37
- _____ *ExamView® Pro Testmaker CD-ROM*, Ch. 37
- _____ *Interactive Chalkboard CD-ROM*:
Ch. 37 Assessment

Lesson Plan

Activity	Resources	Suggested Time
Classroom Management <ul style="list-style-type: none"> • Have students check homework answers. 	<i>TWE</i> , pp. 987, 991–993	5 minutes
Reviewing the Chapter <ul style="list-style-type: none"> • Answer homework questions. • Answer any final questions about Chapter 37. 	<i>TWE</i> , pp. 971–993	5 minutes
Assessment <ul style="list-style-type: none"> • Distribute the test and allow students to work quietly. 	<i>Chapter Assessment</i> , pp. 157–162 <i>URB</i>	30–35 minutes
Closing <ul style="list-style-type: none"> • As students complete the test, let them explore the Internet connection for Chapter 38. 	bdol.glencoe.com	0–5 minutes

[total = 45 minutes]