

Population Biology

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	4.1 Population Dynamics
0.5	4.2 Human Population
0.5	Chapter Assessment

Block Schedule Planning Guide

4.1

Population Dynamics

pages 91–99

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

Pacing Guide

1 block

Lesson & Problem-Solving Lab

KEY: *SE* = Student Edition, *TWE* = Teacher Wraparound Edition, *TCR* = Teacher Classroom Resources, *BDOL* = Biology: The Dynamics of Life, *URB* = Unit Resources Booklet

Objectives

- **Compare and contrast** exponential and linear population growth.
- **Relate** the reproductive patterns of different populations of organisms to models of population growth.
- **Predict** effects of environmental factors on population growth.

State/local objectives: _____

Lesson Resources

- _____ Section Focus Transparency 8 and Master *TCR/URB*
- _____ *MiniLab Worksheet*, p. 73 *URB*
- _____ *BioLab Worksheet*, pp. 75–76 *URB*
- _____ *Concept Mapping*, p. 85 *URB*
- _____ *Reinforcement and Study Guide*, *URB* English, pp. 77–78; Spanish, pp. 81–82
- _____ Reteaching Skills Transparency 6 and Master, *TCR/URB*

- _____ *MindJogger Videoquizzes*, Ch. 4
- _____ **Guided Reading Audio Summaries MP3**
- _____ **Virtual Labs CD-ROM**
Virtual Lab: *Population Biology*
- _____ *Using the Internet in the Science Classroom*, *TCR*
- _____ Glencoe Science Web site: bdol.glencoe.com

Optional Resources

- _____ *Laboratory Manual*, pp. 15–18, 19–22 *TCR*
- _____ *Critical Thinking/Problem Solving*, p. 86 *URB*

Multimedia Resources

- _____ **Interactive Chalkboard CD-ROM:**
Section 4.1 Presentation

Lesson Plan

Activity	Resources	Suggested Time
Classroom Management <ul style="list-style-type: none"> • Distribute the corrected Chapter 3 tests while students complete the Bellringer for Section 4.1. 	Section Focus Transparency 8 and Master, <i>TCR/URB</i>	5 minutes
Discussion <ul style="list-style-type: none"> • Answer Chapter 3 test questions. 	<i>Chapter Assessment</i> , pp. 160–161 <i>URB</i>	5 minutes
Core Lesson <ul style="list-style-type: none"> • Introduce Chapter 4 with the Two-Minute Chapter Launcher. • Teach the main concepts of Section 4.1. • Use the Teaching Strategies for the Inside Story. 	<i>TWE</i> , p. 90 <i>TWE</i> , pp. 91–99 <i>TWE</i> , p. 94	35 minutes
In-Class Check <ul style="list-style-type: none"> • Have students complete Problem-Solving Lab 4.1 and discuss the Thinking Critically questions. • Review Section 4.1 concepts with the Reinforcement and Study Guide. 	<i>SE</i> , p. 95 <i>Reinforcement and Study Guide</i> , <i>URB</i> English, pp. 77–78; Spanish, pp. 81–82	20 minutes
Homework <ul style="list-style-type: none"> • Have students complete Section 4.1 Assessment. • Assign relevant questions from Chapter 4 Assessment. 	<i>TWE</i> , p. 99 <i>TWE</i> , pp. 107–109	15 minutes
Closing <ul style="list-style-type: none"> • Assess students with the Extension activity. 	<i>TWE</i> , p. 99	10 minutes

[total = 90 minutes]

Block Schedule Planning Guide

4.2

Human Population

pages 100–103

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

Pacing Guide

1/2 block

Lesson & MiniLab

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Objectives

- **Identify** how the birthrate and death rate affect the rate at which a population changes.
- **Compare** the age structure of rapidly growing, slow-growing, and no-growth countries.
- **Explain** the relationship between a population and the environment.

State/local objectives: _____

Lesson Resources

- _____ Section Focus Transparency 9 and Master, *TCR/URB*
- _____ *MiniLab Worksheet*, p. 47 *URB*
- _____ *Reinforcement and Study Guide*, *URB*
English, pp. 79–80; Spanish, pp. 83–84

- _____ *MindJogger Videoquizzes*, Ch. 4
- _____ **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 4.2 Presentation

Lesson Plan

Activity	Resources	Suggested Time
Classroom Management <ul style="list-style-type: none"> • Have students complete the Bellringer for Section 4.2. • Have students check homework answers. 	Section Focus Transparency 9 and Master, <i>TCR/URB</i> <i>TWE</i> , pp. 99, 107–109	5 minutes
Discussion <ul style="list-style-type: none"> • Answer homework questions. 	<i>TWE</i> , pp. 99, 107–109	5 minutes
Core Lesson <ul style="list-style-type: none"> • Introduce Section 4.2 with MiniLab 4.2. Assess students' answers and discuss their results. • Teach the main concepts of Section 4.2. 	<i>SE</i> and <i>TWE</i> , p. 102 <i>TWE</i> , pp. 100–103	20 minutes
In-Class Check <ul style="list-style-type: none"> • Do the Check for Understanding and Reteach Strategies. • Answer questions on Chapter 4 in preparation for the test. 	<i>TWE</i> , p. 103 <i>TWE</i> , pp. 91–109	5 minutes
Homework <ul style="list-style-type: none"> • Assign the Section 4.2 Assessment. • Assign relevant questions from Chapter 4 Assessment. 	<i>SE</i> , p. 103 <i>SE</i> , pp. 107–109	5 minutes
Closing <ul style="list-style-type: none"> • Assess students with the Modified Assessment activity. 	<i>TWE</i> , p. 101	5 minutes

[total = 45 minutes]

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Assessment Resources

- _____ *Chapter Assessment*, Ch. 4 *URB*
- _____ *Performance Assessment in the Biology Classroom*, *TCR*
- _____ *Alternate Assessment in the Science Classroom*, *TCR*

Multimedia Resources

- _____ *MindJogger Videoquizzes*, Ch. 4
- _____ *ExamView®Pro Testmaker CD-ROM*, Ch. 4
- _____ *Interactive Chalkboard CD-ROM*: Ch. 4 Assessment

Lesson Plan

Activity	Resources	Suggested Time
Classroom Management <ul style="list-style-type: none"> • Have students check homework answers. 	<i>TWE</i> , p. 103 <i>TWE</i> , pp. 107–109	5 minutes
Reviewing the Chapter <ul style="list-style-type: none"> • Answer homework questions. • Answer any final questions about Chapter 4. 	<i>TWE</i> , pp. 91–109	5 minutes
Assessment <ul style="list-style-type: none"> • Distribute the test and allow students to work quietly. 	<i>Chapter Assessment</i> , pp. 91–96 <i>URB</i>	30–35 minutes
Closing <ul style="list-style-type: none"> • As students complete the test, have them read the Chapter 5 Opener. • If students have time, let them explore the Internet connection for Chapter 5. 	<i>SE</i> , p. 110 bdol.glencoe.com	5 minutes

[total = 45 minutes]