

Lesson Plan

4.1

Population Dynamics

pp. 91–99

3 class session(s)

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

Section 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.

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

Focus

- _____ Section Focus Transparency 8 and Master, *TCR/URB*
- _____ Two-Minute Chapter Launcher, *TWE* p. 90
- _____ Bellringer, *TWE* p. 91

Teach

- _____ MiniLab 4.1, *SE* p. 92
- _____ Inside Story, *SE* p. 94
- _____ Problem-Solving Lab 4.1, *SE* p. 95
- _____ Investigate BioLab, *SE* p. 104
- _____ Connection to Chemistry, *SE* p. 106
- _____ Additional Lab, *TWE* p. 96
- _____ Quick Demo, *TWE* p. 97
- _____ *Reading Essentials for Biology*, Section 4.1 *TCR*
- _____ *MiniLab Worksheet*, p. 73 *URB*
- _____ *BioLab Worksheet*, pp. 75–76 *URB*
- _____ *Transparency Worksheets*, pp. 87, 89–90 *URB*
- _____ *Laboratory Manual*, pp. 15–18, 19–22 *TCR*
- _____ *Concept Mapping*, p. 85 *URB*

Assess/Reteach

- _____ Section Assessment, *SE* p. 99
- _____ Check for Understanding, *TWE* p. 99
- _____ Reteach, *TWE* p. 99
- _____ *Reinforcement and Study Guide*, *URB*
- _____ English, pp. 77–78; Spanish, pp. 81–82
- _____ Reteaching Skills Transparency 6 and Master, *TCR/URB*

Enrichment/Application

- _____ Project, *TWE* p. 94
- _____ Extension, *TWE* p. 99
- _____ *Critical Thinking/Problem Solving*, p. 86 *URB*
- _____ Tech Prep, *TWE* p. 92

Chapter Assessment

- _____ Assessment, *TWE* pp. 92, 94, 95, 97, 99
- _____ *Performance Assessment in the Biology Classroom*, *TCR*
- _____ *Alternate Assessment in the Science Classroom*, *TCR*

Multimedia Options

- _____ **Interactive Chalkboard CD-ROM:**
- _____ Section 4.1 Presentation
- _____ **MindJogger Videoquizzes**, Ch. 4 DVD/VHS
- _____ **ExamView® Pro Testmaker CD-ROM**, Ch. 4
- _____ *Using the Internet in the Science Classroom*, *TCR*
- _____ **TeacherWorks™ CD-ROM**
- _____ **Guided Reading Audio Summaries MP3**
- _____ **Virtual Labs CD-ROM**
- _____ Virtual Lab: *Population Biology*
- _____ Glencoe Science Web site: bdol.glencoe.com

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2 class session(s)

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

Section Objectives

- **Identify** how the birth rate 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.

National Science Content Standards

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

Focus

- _____ Section Focus Transparency 9 and Master, *TCR/URB*
 _____ Bellringer *TWE*, p. 100

Teach

- _____ MiniLab 4.2, *SE* p. 102
 _____ Problem-Solving Lab 4.2, *SE* p. 101
 _____ *MiniLab Worksheet*, p. 74 *URB*
 _____ *Reading Essentials for Biology*, Section 4.2 *TCR*
 _____ *Reading and Writing in the Science Classroom*, *TCR*

Assess/Reteach

- _____ Section Assessment, *SE* p. 103
 _____ Check for Understanding, *TWE* p. 103
 _____ Reteach, *TWE* p. 103
 _____ *Reinforcement and Study Guide*, *URB*: English, pp. 79–80; Spanish, pp. 83–84

Enrichment/Application

- _____ Extension, *TWE* p. 103

Chapter Assessment

- _____ Chapter Assessment, *SE* pp. 107–109
 _____ Assessment, *TWE* pp. 101, 102, 103
 _____ **Interactive Chalkboard CD-ROM**, Chapter 4 Assessment
 _____ *Chapter Assessment*, pp. 91–96 *URB*
 _____ *Student Recording Sheet*, p. 97 *URB*
 _____ *Performance Assessment in the Biology Classroom*, *TCR*
 _____ *Alternate Assessment in the Science Classroom*, *TCR*
 _____ *The Princeton Review: Reviewing Biology*, pp. 7–8 *TCR*

Multimedia Options

- _____ **Interactive Chalkboard CD-ROM**: Section 4.2 Presentation
 _____ **MindJogger Videoquizzes**, Ch. 4 DVD/VHS
 _____ **ExamView®Pro Testmaker CD-ROM**, Ch. 4
 _____ **TeacherWorks™ CD-ROM**
 _____ **Guided Reading Audio Summaries MP3**
 _____ *Using the Internet in the Science Classroom*, *TCR*
 _____ Glencoe Science Web site: bdol.glencoe.com