

Lesson Plan 15.1

Natural Selection and the Evidence for Evolution

pp. 393–403

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

- Summarize Darwin's theory of natural selection.
- Explain how the structural and physiological adaptations of organisms relate to natural selection.
- Distinguish among the types of evidence for evolution.

National Science Content Standards

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

Focus

- _____ Section Focus Transparency 37 and Master, TCR/URB
- _____ Two-Minute Chapter Launcher, TWE p. 392
- _____ Bellringer, TWE p. 393

Teach

- _____ MiniLab 15.1, SE p. 398
- _____ Problem-Solving Lab 15.1, SE p. 397
- _____ Portfolio, TWE pp. 399, 401, 402
- _____ Quick Demo, TWE p. 394
- _____ Concept Mapping, SE p. 45 URB
- _____ MiniLab Worksheets, p. 33 URB
- _____ Transparency Worksheet, p. 47 URB
- _____ Reading Essentials for Biology, Section 15.1 TCR
- _____ Laboratory Manual, pp. 87–88, 89–92 TCR

Assess/Reteach

- _____ Section Assessment, SE p. 403
- _____ Check for Understanding, TWE p. 403
- _____ Reteach, TWE p. 403
- _____ Reinforcement and Study Guide, URB: English, pp. 37–38; Spanish, pp. 41–42

Enrichment/Application

- _____ Project, TWE pp. 394, 396, 400, 402
- _____ Extension, TWE p. 403
- _____ Critical Thinking/Problem Solving, p. 46 URB

Chapter Assessment

- _____ Assessment, TWE pp. 397, 398, 403
- _____ Alternate Assessment in the Science Classroom, TCR
- _____ Performance Assessment in the Biology Classroom, TCR

Multimedia Options

- _____ Interactive Chalkboard CD-ROM:
Section 15.1 Presentation
- _____ MindJogger Videoquizzes, Ch. 15 DVD/VHS
- _____ ExamView® Pro Testmaker CD-ROM, Ch. 15
- _____ TeacherWorks™ CD-ROM
- _____ Guided Reading Audio Summaries MP3
- _____ Virtual Labs CD-ROM
Virtual Lab: Natural Selection
- _____ Using the Internet in the Science Classroom, TCR
- _____ Glencoe Science Web site: bdol.glencoe.com

pp. 404–413

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

- **Summarize** the effects of the different types of natural selection on gene pools.
- **Relate** changes in genetic equilibrium to mechanisms of speciation.
- **Explain** the role of natural selection in convergent and divergent evolution.

National Science Content Standards

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

Focus

_____ Section Focus Transparency 38 and Master, *TCR/URB*
 _____ Bellringer, *TWE* p. 404

Teach

_____ MiniLab 15.2, <i>SE</i> p. 407	_____ <i>MiniLab Worksheet</i> , p. 34 <i>URB</i>
_____ Internet BioLab, <i>SE</i> p. 414	_____ <i>BioLab Worksheet</i> , pp. 35–36 <i>URB</i>
_____ Connection to Math, <i>SE</i> p. 416	_____ <i>Transparency Worksheets</i> , pp. 48, 49–54 <i>URB</i>
_____ Quick Demo, <i>TWE</i> p. 410	_____ <i>Reading Essentials for Biology</i> , Section 15.2 <i>TCR</i>
_____ Additional Lab, <i>TWE</i> p. 408	_____ Basic Concepts Transparencies 21, 22 and Masters, <i>TCR/URB</i>
_____ Cultural Diversity, <i>TWE</i> p. 407	

Assess/Reteach

_____ Section Assessment, <i>SE</i> p. 413	_____ <i>Reinforcement and Study Guide</i> , <i>URB</i>
_____ Reinforcement, <i>TWE</i> pp. 408, 410, 412	English, pp. 39–40; Spanish, pp. 43–44
_____ Check for Understanding, <i>TWE</i> p. 413	_____ Reteaching Skills Transparency 24 and Master, <i>TCR/URB</i>
_____ Reteach, <i>TWE</i> p. 413	

Enrichment/Application

_____ Tech Prep, *TWE* p. 405
 _____ Project, *TWE* p. 410
 _____ Extension, *TWE* p. 413

Chapter Assessment

_____ Chapter Assessment, <i>SE</i> pp. 417–419	_____ <i>Alternate Assessment in the Science Classroom</i> , <i>TCR</i>
_____ Assessment, <i>TWE</i> pp. 407, 409, 413	_____ Interactive Chalkboard CD-ROM , Chapter 15 Assessment
_____ <i>Chapter Assessment</i> , pp. 55–60 <i>URB</i>	_____ <i>The Princeton Review: Reviewing Biology</i> , pp. 29–30 <i>TCR</i>
_____ <i>Student Recording Sheet</i> , p. 61 <i>URB</i>	
_____ <i>Performance Assessment in the Biology Classroom</i> , <i>TCR</i>	

Multimedia Options

_____ Interactive Chalkboard CD-ROM: Section 15.2 Presentation	_____ TeacherWorks™ CD-ROM
_____ MindJogger Videoquizzes , Ch. 15 DVD/VHS	_____ Guided Reading Audio Summaries MP3
_____ ExamView® Pro Testmaker CD-ROM , Ch. 15	_____ <i>Using the Internet in the Science Classroom</i> , <i>TCR</i>
	_____ Glencoe Science Web site: bdol.glencoe.com