

pp. 281–287

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**

- Analyze the structure of DNA.
- Determine how the structure of DNA enables it to reproduce itself accurately.

**National Science Content Standards**

UCP.1–3; A.1, A.2; B.2, B.3; C.2, C.3; G.1–3

**Focus**

- \_\_\_\_\_ Section Focus Transparency 26 and Master, TCR/URB
- \_\_\_\_\_ Two-Minute Chapter Launcher, TWE p. 280
- \_\_\_\_\_ Bellringer, TWE p. 281

**Teach**

- \_\_\_\_\_ Problem-Solving Lab 11.1, SE p. 283
- \_\_\_\_\_ Inside Story, SE p. 286
- \_\_\_\_\_ Additional Lab, TWE p. 282
- \_\_\_\_\_ Quick Demo, TWE p. 285
- \_\_\_\_\_ Cultural Diversity, TWE p. 284
- \_\_\_\_\_ Laboratory Manual, pp. 59–62 TCR
- \_\_\_\_\_ Transparency Worksheets, pp. 57, 61–62 URB
- \_\_\_\_\_ Concept Mapping, p. 55 URB
- \_\_\_\_\_ Basic Concept Transparency 16 and Master, TCR/URB
- \_\_\_\_\_ Reading Essentials for Biology, Section 11.1 TCR

**Assess/Reteach**

- \_\_\_\_\_ Section Assessment, SE p. 287
- \_\_\_\_\_ Check for Understanding, TWE p. 287
- \_\_\_\_\_ Reteach, TWE p. 287
- \_\_\_\_\_ Reinforcement and Study Guide, URB: English, p. 47; Spanish, p. 51

**Enrichment/Application**

- \_\_\_\_\_ Enrichment, TWE pp. 282, 284
- \_\_\_\_\_ Project, TWE p. 286
- \_\_\_\_\_ Extension, TWE p. 287

**Chapter Assessment**

- \_\_\_\_\_ Assessment, TWE pp. 283, 287
- \_\_\_\_\_ Performance Assessment in the Biology Classroom, TCR
- \_\_\_\_\_ Alternate Assessment in the Science Classroom, TCR

**Multimedia Options**

- \_\_\_\_\_ Interactive Chalkboard CD-ROM: Section 11.1 Presentation
- \_\_\_\_\_ MindJogger Videoquizzes, Ch. 11 DVD/VHS
- \_\_\_\_\_ ExamView® Pro Testmaker CD-ROM, Ch. 11
- \_\_\_\_\_ TeacherWorks™ CD-ROM
- \_\_\_\_\_ Guided Reading Audio Summaries MP3
- \_\_\_\_\_ Using the Internet in the Science Classroom, TCR
- \_\_\_\_\_ Glencoe Science Web site: [bdol.glencoe.com](http://bdol.glencoe.com)

pp. 288–295

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### Section Objectives

- Relate the concept of the gene to the sequence of nucleotides in DNA.
- Sequence the steps involved in protein synthesis.

### National Science Content Standards

UCP.1, UCP.2; A.1, A.2; B.2; C.2; G.1

### Focus

- \_\_\_\_\_ Section Focus Transparency 27 and Master, *TCR/URB*
- \_\_\_\_\_ Bellringer, *TWE* p. 284

### Teach

- \_\_\_\_\_ Problem-Solving Lab 11.2, *SE* p. 291
- \_\_\_\_\_ MiniLab 11.1, *SE* p. 293
- \_\_\_\_\_ Investigate BioLab, *SE* p. 302
- \_\_\_\_\_ Quick Demo, *TWE* p. 289
- \_\_\_\_\_ Biology Journal, *TWE* p. 292
- \_\_\_\_\_ Basic Concepts Transparencies 17, 18 and Masters, *TCR/URB*
- \_\_\_\_\_ Portfolio, *TWE* p. 294
- \_\_\_\_\_ *MiniLab Worksheet*, pp. 39–40 *URB*
- \_\_\_\_\_ *BioLab Worksheet*, pp. 43–46 *URB*
- \_\_\_\_\_ *Transparency Worksheets*, pp. 58, 63–68 *URB*
- \_\_\_\_\_ *Reading Essentials for Biology*, Section 11.2 *TCR*

### Assess/Reteach

- \_\_\_\_\_ Section Assessment, *SE* p. 295
- \_\_\_\_\_ Check for Understanding, *TWE* p. 294
- \_\_\_\_\_ Reinforcement, *TWE* p. 292
- \_\_\_\_\_ Reteach, *TWE* p. 294
- \_\_\_\_\_ *Reinforcement and Study Guide*, *URB*: English, pp. 48–49; Spanish, pp. 52–53
- \_\_\_\_\_ Reteaching Skills Transparency 18 and Master, *TCR/URB*

### Enrichment/Application

- \_\_\_\_\_ Enrichment, *TWE* p. 290
- \_\_\_\_\_ Extension, *TWE* p. 295
- \_\_\_\_\_ *Critical Thinking/Problem Solving*, p. 56 *URB*

### Chapter Assessment

- \_\_\_\_\_ Assessment, *TWE* pp. 291, 293, 295
- \_\_\_\_\_ *Performance Assessment in the Biology Classroom*, *TCR*
- \_\_\_\_\_ *Alternate Assessment in the Science Classroom*, *TCR*

### Multimedia Options

- \_\_\_\_\_ **Interactive Chalkboard CD-ROM:**
- \_\_\_\_\_ Section 11.2 Presentation
- \_\_\_\_\_ **MindJogger Videoquizzes**, Ch. 11 DVD/VHS
- \_\_\_\_\_ **ExamView®Pro Testmaker CD-ROM**, Ch. 11
- \_\_\_\_\_ *Using the Internet in the Science Classroom*, *TCR*
- \_\_\_\_\_ **TeacherWorks™ CD-ROM**
- \_\_\_\_\_ **Guided Reading Audio Summaries MP3**
- \_\_\_\_\_ Glencoe Science Web site: [bdol.glencoe.com](http://bdol.glencoe.com)

pp. 296–301

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

### Section Objectives

- **Categorize** the different kinds of mutations that can occur in DNA.
- **Compare** the effects of different kinds of mutations on cells and organisms.

### National Science Content Standards

UCP. 1–4; A.1, A.2; B.2; C.2–4; E.1, E.2; F.1, F.4, F.5; G.1, G.2

### Focus

\_\_\_\_\_ Section Focus Transparency 28 and Master, *TCR/URB*  
 \_\_\_\_\_ Bellringer, *TWE* p. 302

### Teach

\_\_\_\_\_ Problem-Solving Lab 11.3, *SE* p. 299  
 \_\_\_\_\_ MiniLab 11.2, *SE* p. 300  
 \_\_\_\_\_ Careers in Biology, *SE* p. 297  
 \_\_\_\_\_ Quick Demo, *TWE* p. 298  
 \_\_\_\_\_ Biotechnology, *SE* p. 304  
 \_\_\_\_\_ *MiniLab Worksheets*, p. 41 *URB*  
 \_\_\_\_\_ *Transparency Worksheets*, pp. 59, 69–72 *URB*  
 \_\_\_\_\_ *Reading Essentials for Biology*, Section 11.3 *TCR*  
 \_\_\_\_\_ *Reading and Writing in the Science Classroom*, *TCR*  
 \_\_\_\_\_ *Laboratory Manual*, pp. 63–66 *TCR*

### Assess/Reteach

\_\_\_\_\_ Section Assessment, *SE* p. 301  
 \_\_\_\_\_ Check for Understanding, *TWE* p. 301  
 \_\_\_\_\_ Reinforcement, *TWE* p. 298  
 \_\_\_\_\_ Reteach, *TWE* p. 301  
 \_\_\_\_\_ *Reinforcement and Study Guide*, *URB*  
 English, p. 50; Spanish, p. 54  
 \_\_\_\_\_ Reteaching Skills Transparencies 19a, 19b and  
 Masters, *TCR/URB*

### Enrichment/Application

\_\_\_\_\_ Enrichment, *TWE* p. 297  
 \_\_\_\_\_ Tech Prep, *TWE* p. 298  
 \_\_\_\_\_ Extension, *TWE* p. 301

### Chapter Assessment

\_\_\_\_\_ Chapter Assessment, *SE* pp. 305–307  
 \_\_\_\_\_ Assessment, *TWE* pp. 299, 300, 301  
 \_\_\_\_\_ *Chapter Assessment*, pp. 73–78 *URB*  
 \_\_\_\_\_ *Student Recording Sheet*, p. 79 *URB*  
 \_\_\_\_\_ *Performance Assessment in the Biology Classroom*,  
*TCR*  
 \_\_\_\_\_ *Alternate Assessment in the Science Classroom*, *TCR*  
 \_\_\_\_\_ **Interactive Chalkboard CD-ROM**,  
 Chapter 11 Assessment  
 \_\_\_\_\_ *The Princeton Review: Reviewing Biology*,  
 pp. 21–22 *TCR*

### Multimedia Options

\_\_\_\_\_ **Interactive Chalkboard CD-ROM:**  
 Section 11.3 Presentation  
 \_\_\_\_\_ **MindJogger Videoquizzes**, Ch. 11 DVD/VHS  
 \_\_\_\_\_ **ExamView® Pro Testmaker CD-ROM**, Ch. 11  
 \_\_\_\_\_ *Using the Internet in the Science Classroom*, *TCR*  
 \_\_\_\_\_ **TeacherWorks™ CD-ROM**  
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