

Viruses and Bacteria

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 |
|-------|-------------------------------------|
| 0.5 | 18.1 Viruses |
| 1 | 18.2 Archaeobacteria and Eubacteria |
| 0.5 | Chapter Assessment |

Block Schedule Planning Guide

18.1

Viruses

pages 475–483

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

Pacing Guide

1/2 block

Lesson & MiniLab

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

Objectives

- **Identify** the different kinds of viruses and their structures.
- **Compare and contrast** the replication cycles of viruses.

State/local objectives: _____

Lesson Resources

- _____ Section Focus Transparency 43 and Master, *TCR/URB*
- _____ Basic Concepts Transparencies 25–26 and Master, *TCR/URB*
- _____ *MiniLab Worksheet*, p. 3 *URB*
- _____ *Concept Mapping*, p. 15 *URB*
- _____ *Reinforcement and Study Guide*, *URB* English, pp. 7–8; Spanish, pp. 11–12
- _____ Reteaching Skills Transparency 27 and Master, *TCR/URB*

Multimedia Resources

- _____ **Interactive Chalkboard CD-ROM:** Section 18.1 Presentation
- _____ **MindJogger Videoquizzes**, Ch. 18
- _____ **Guided Reading Audio Summaries MP3**
- _____ **Virtual Labs CD-ROM**
Virtual Lab: *Vaccines in Action*
- _____ *Using the Internet in the Science Classroom*, *TCR*
- _____ Glencoe Science Web site: bdol.glencoe.com

Optional Resources

- _____ *Laboratory Manual*, pp. 109–112 *TCR*

Lesson Plan

| Activity | Resources | Suggested Time |
|--|---|----------------|
| Classroom Management <ul style="list-style-type: none"> • Distribute the corrected Chapter 17 tests while students complete the Bellringer for Section 18.1. | Section Focus Transparency 43 and Master, <i>TCR/URB</i> | 5 minutes |
| Discussion <ul style="list-style-type: none"> • Answer Chapter 17 test questions. | <i>Chapter Assessment</i> , pp. 163–164 <i>URB</i> | 5 minutes |
| Core Lesson <ul style="list-style-type: none"> • Introduce Chapter 18 with the Two-Minute Chapter Launcher. • Teach the main concepts of Section 18.1. • Do the Quick Demo. | <i>TWE</i> , p. 474 <i>TWE</i> , pp. 475–483 <i>TWE</i> , p. 477 | 10–15 minutes |
| In-Class Check <ul style="list-style-type: none"> • Have students complete MiniLab 18.1. • Assess students' answers to the MiniLab, and discuss their results. • Use the Reteaching Skills Transparency to review the main concepts in Section 18.1. | <i>SE</i> , p. 476 <i>TWE</i> , p. 476 Reteaching Skills Transparency 27 and Master, <i>TCR/URB</i> | 10–15 minutes |
| Homework <ul style="list-style-type: none"> • Have students complete Problem-Solving Lab 18.1. • Assign Section 18.1 Assessment. • Assign relevant questions from Chapter 18 Assessment. | <i>SE</i> , p. 480 <i>SE</i> , p. 483 <i>SE</i> , pp. 499–501 | 5 minutes |
| Closing <ul style="list-style-type: none"> • Assess students with the Modified Assessment. | <i>TWE</i> , p. 483 | 5 minutes |

[total = 45 minutes]

Block Schedule Planning Guide

18.2

Archaeobacteria and Eubacteria

pages 484–495

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

Objectives

- **Compare** the types of prokaryotes.
- **Explain** the characteristics and adaptations of bacteria.
- **Evaluate** the economic importance of bacteria.

State/local objectives: _____

Lesson Resources

- _____ Section Focus Transparency 44 and Master, *TCR/URB*
- _____ Basic Concepts Transparency 27 and Master, *TCR/URB*
- _____ *MiniLab Worksheet*, p. 4 *URB*
- _____ *BioLab Worksheet*, pp. 5–6 *URB*
- _____ *Reinforcement and Study Guide*, *URB* English, pp. 9–10; Spanish, pp. 13–14
- _____ Reteaching Skills Transparency 28 and Master, *TCR/URB*

Multimedia Resources

- _____ **Interactive Chalkboard CD-ROM:** Section 18.2 Presentation
- _____ **MindJogger Videoquizzes**, Ch. 18
- _____ **Guided Reading Audio Summaries MP3**
- _____ *Using the Internet in the Science Classroom*, *TCR*
- _____ Glencoe Science Web site: bdol.glencoe.com

Optional Resources

- _____ *Laboratory Manual*, pp. 113–116 *TCR*
- _____ *Critical Thinking/Problem Solving*, p. 16 *URB*
- _____ *Inside Story Poster* *TCR*

Lesson Plan

| Activity | Resources | Suggested Time |
|---|---|----------------|
| Classroom Management <ul style="list-style-type: none"> • Have students complete the Bellringer for Section 18.2. • Have students check homework answers. | Section Focus Transparency 43 and Master, <i>TCR/URB</i> <i>TWE</i> , pp. 483, 499–501 | 5 minutes |
| Discussion <ul style="list-style-type: none"> • Answer homework questions. | <i>TWE</i> , pp. 483, 499–501 | 5 minutes |
| Core Lesson <ul style="list-style-type: none"> • Teach the main concepts of Section 18.2. • Use the Teaching Strategies and Visual Learning aides to review the Inside Story. | <i>TWE</i> , pp. 484–495 <i>TWE</i> , p. 487 | 30–35 minutes |
| In-Class Check <ul style="list-style-type: none"> • Have students work on the BioLab. (Note: this lab requires a 15 minute follow-up session 48 hours after the lab is begun.) • Answer questions on Chapter 18 in preparation for the test. | <i>SE</i> , pp. 496–497 <i>TWE</i> , pp. 475–501 | 35–40 minutes |
| Homework <ul style="list-style-type: none"> • Have students complete Section 18.2 Assessment. • Assign relevant questions from Chapter 18 Assessment. | <i>SE</i> , p. 495 <i>SE</i> , pp. 499–501 | 5 minutes |
| Closing <ul style="list-style-type: none"> • Assess students with the Modified Assessment. | <i>TWE</i> , p. 495 | 5 minutes |

[total = 90 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. 18 *URB*
- _____ *Performance Assessment in the Biology Classroom*, *TCR*
- _____ *Alternate Assessment in the Science Classroom*, *TCR*

Multimedia Resources

- _____ *MindJogger Videoquizzes*, Ch. 18
- _____ *ExamView® Pro Testmaker CD-ROM*, Ch. 18
- _____ *Interactive Chalkboard CD-ROM*:
Ch. 18 Assessment

Lesson Plan

| Activity | Resources | Suggested Time |
|---|---|----------------|
| Classroom Management <ul style="list-style-type: none"> • Have students check homework answers. | <i>TWE</i> , p. 495 | 5 minutes |
| Reviewing the Chapter <ul style="list-style-type: none"> • Answer homework questions. • Answer any final questions about Chapter 18. | <i>TWE</i> , pp. 475–501 | 5 minutes |
| Assessment <ul style="list-style-type: none"> • Distribute the test and allow students to work quietly. | <i>Chapter Assessment</i> , pp. 29–34 <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 19. | bdol.glencoe.com | 0–5 minutes |

[total = 45 minutes]