

Lesson Plan 28.1

Characteristics of Arthropods



KEY: *SE* = Student Edition, *TWE* = Teacher Wraparound Edition, *TCR* = Teacher Classroom Resources, *NGS* = National Geographic Society videodisc, *BDOL* = Biology: The Dynamics of Life

pp. 760–766

1 class session(s)

Section Objectives

- **Relate** the structural and behavioral adaptations of arthropods to their ability to live in different habitats.
- **Analyze** the adaptations that make arthropods an evolutionarily successful phylum.

National Science Content Standards

UCP. 1–5; A.1, A.2; C.3, C.5, C.6

Georgia QCC

1.1, 1.2, 2.1, 20.2, 20.3

Focus

- _____ Section Focus Transparency 69 and Master Getting Started Demo, *TWE* p. 760
- _____ Bellringer, *TWE* p. 761

Teach

- _____ MiniLab 28-1, *SE* p. 763
- _____ Problem-Solving Lab 28-1, *SE* p. 766
- _____ Alternative Lab, *TWE* p. 762
- _____ Quick Demos, *TWE* p. 762
- _____ Portfolio, *TWE* p. 764
- _____ Biology Journal, *TWE* p. 764
- _____ *BioLab and MiniLab Worksheets*, p. 125 *TCR*
- _____ Basic Concepts Transparency 49 and Master *Spanish Resources*

Assess/Reteach

- _____ Section Assessment, *SE* p. 766
- _____ Check for Understanding, *TWE* p. 765
- _____ Reteach, *TWE* p. 765
- _____ Reteaching Skills Transparency 41 and Master *Reinforcement and Study Guide*, pp. 123–124 *TCR*
- _____ *Content Mastery*, pp. 137–138, 140 *TCR*

Enrichment/Application

- _____ Extension, *TWE* p. 765

Close

- _____ Demonstration, *TWE* p. 765

Chapter Assessment

- _____ Assessment, *TWE* pp. 763, 764, 765, 766
- _____ *Performance Assessment in the Biology Classroom*, *TCR*
- _____ *Alternate Assessment in the Science Classroom*, *TCR*

Multimedia Options

- _____ **BDOL CD-ROM** Section 28.1 Summary; Video: *Molting Crab, Arthropods*; Exploration: *Arthropods, Classifying Beetles*; BioQuest: *Biodiversity Park*
- _____ **MindJogger Videoquizzes**, Ch. 28 videotape
- _____ **ExamView®Pro Software**, Ch. 28
- _____ *Using the Internet in the Science Classroom*, *TCR*
- _____ Glencoe Science Web Site: ga.science.glencoe.com



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pp. 767–785

2 class session(s)

Section Objectives

- **Compare and contrast** the similarities and differences among the major groups of arthropods.
- **Explain** the adaptations of insects that contribute to their success.

National Science Content Standards

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

Georgia QCC

1.1, 1.2, 2.1, 3.2, 20.1, 20.2, 20.3, 20.4

Focus

_____ Section Focus Transparency 70 and Master
 _____ Bellringer, *TWE* p. 767

Teach

_____ Inside Story, *SE* p. 769
 _____ Inside Story, *SE* p. 772
 _____ MiniLab 28-2, *SE* p. 774
 _____ Focus on Insects, *SE* p. 776
 _____ Design Your Own BioLab, *SE* p. 780
 _____ Health Connection, *SE* p. 782
 _____ Biology Journal, *TWE* pp. 768, 769, 777, 778
 _____ Quick Demo, *TWE* pp. 768, 773
 _____ Cultural Diversity, *TWE* p. 771
 _____ Portfolio, *TWE* p. 773
 _____ *Concept Mapping*, p. 28 *TCR*
 _____ *Inside Story Poster*; *TCR*
 _____ *BioLab and MiniLab Worksheets*, pp. 126–128
 _____ *TCR*
 _____ *Laboratory Manual*, pp. 199–204 *TCR*
 _____ *Spanish Resources*

Assess/Reteach

_____ Section Assessment, *SE* p. 775
 _____ Check for Understanding, *TWE* p. 775
 _____ Reteach, *TWE* p. 775
 _____ *Reinforcement and Study Guide*, pp. 125–126 *TCR*
 _____ Reteaching Skills Transparencies 41, 42 and
 _____ Masters
 _____ *Content Mastery*, pp. 137, 139–140 *TCR*
 _____ *5 Days to the Georgia High School Graduation Test*,
 _____ *TCR*

Enrichment/Application

_____ Enrichment, *TWE* pp. 768, 773, 777, 779
 _____ Tech Prep, *TWE* p. 771
 _____ Project, *TWE* pp. 773, 776
 _____ Extension, *TWE* p. 775
 _____ *Tech Prep Applications*, pp. 33–36 *TCR*

Close

_____ Activity, *TWE* p. 775

Chapter Assessment

_____ Chapter Assessment, *SE* pp. 783–785
 _____ Assessment, *TWE* pp. 773, 774, 775, 781
 _____ *Chapter Assessment*, pp. 163–168 *TCR*
 _____ **BDOL Interactive CD-ROM**, Chapter 28 quiz
 _____ *Performance Assessment in the Biology Classroom*,
 _____ *TCR*
 _____ *Alternate Assessment in the Science Classroom*, *TCR*

Multimedia Options

_____ **BDOL CD-ROM** Section 28.2 Summary;
 Video: *Web-Spinning Spider*; *Gradual
 Metamorphosis*; *Complete Metamorphosis*
 _____ **MindJogger Videoquizzes**, Ch. 28 videotape
 _____ **ExamView®Pro Software**, Ch. 28
 _____ **BDOL Videodisc:** *Arthropods*; *Web-Spinning
 Spider*; *Gradual Metamorphosis*; *Complete
 Metamorphosis*
 _____ *Using the Internet in the Science Classroom*, *TCR*
 _____ Glencoe Science Web Site:
 _____ ga.science.glencoe.com