

Lesson Plan 24.1

Life Cycles of Mosses, Ferns, and Conifers



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

pp. 652–660

1 class session(s)

Section Objectives

- Review the steps of alternation of generation.
- Describe the life cycles of mosses, ferns, and conifers.

Focus

- _____ Section Focus Transparency 58 and Master Getting Started Demo, *TWE* p. 652
- _____ Bellringer, *TWE* p. 653

National Science Content Standards

UCP.1–3, UCP.5; A.1, A.2; C.1, C.5

Georgia QCC

1.1, 1.2, 2.1, 18.3, 19.3

Teach

- _____ MiniLab 24-1, *SE* p. 654
- _____ Problem-Solving Lab 24-1, *SE* p. 659
- _____ BioTechnology, *SE* p. 680
- _____ Portfolio, *TWE* p. 656
- _____ Quick Demo, *TWE* p. 657
- _____ Biology Journal, *TWE* p. 657
- _____ *BioLab and MiniLab Worksheets*, p. 109 *TCR*
- _____ *Concept Mapping*, p. 24 *TCR*
- _____ Basic Concepts Transparencies 38, 39, 40 and Masters
- _____ *Spanish Resources*

Assess/Reteach

- _____ Section Assessment, *SE* p. 660
- _____ Check for Understanding, *TWE* p. 660
- _____ Reteach, *TWE* p. 660
- _____ Reteaching Skills Transparencies 35, 36 and Masters
- _____ *Reinforcement and Study Guide*, pp. 105–106 *TCR*
- _____ *Content Mastery*, pp. 117–118, 120 *TCR*

Enrichment/Application

- _____ Extension, *TWE* p. 660

Close

- _____ Biology Journal, *TWE* p. 660

Chapter Assessment

- _____ Assessment, *TWE* pp. 654, 657, 659, 660
- _____ *Alternate Assessment in the Science Classroom*, *TCR*
- _____ *Performance Assessment in the Biology Classroom*, *TCR*

Multimedia Options

- _____ **BDOL CD-ROM** Section 24.1 Summary; Animation: *Life Cycle of a Moss*, *Life Cycle of a Pine*; Video: *Fern Development*
- _____ **MindJogger Videoquizzes**, Ch. 24 videotape
- _____ **ExamView®Pro Software**, Ch. 24
- _____ **BDOL Videodisc:** *Life Cycle of a Moss*, *Life Cycle of a Pine*, *Fern Development*
- _____ *Using the Internet in the Science Classroom*, *TCR*
- _____ Glencoe Science Web Site:
ga.science.glencoe.com

Lesson Plan

24.2

Flowers and Flowering



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pp. 661–666

1 class session(s)

Section Objectives

- Identify the structures of a flower.
- Examine the influence of photoperiodism on flowering.

Focus

_____ Section Focus Transparency 59 and Master Bellringer, TWE p. 661

National Science Content Standards

UCP.1, UCP.2, UCP.5; A.1; C.4–6

Georgia QCC

1.1, 19.1, 19.2, 19.3

Teach

_____ Problem-Solving Lab 24-2, SE p. 663
_____ Inside Story, SE p. 665
_____ Investigate BioLab, SE p. 678
_____ Quick Demo, TWE p. 662
_____ Portfolio, TWE p. 662

_____ Biology Journal, TWE p. 663
_____ Inside Story Poster, TCR
_____ Basic Concepts Transparencies 41, 42, 43 and Masters
_____ Spanish Resources

Assess/Reteach

_____ Section Assessment, SE p. 666
_____ Reinforcement, TWE p. 664
_____ Check for Understanding, TWE p. 666
_____ Reteach, TWE p. 666
_____ Reteaching Skills Transparency 37 and Master Reinforcement and Study Guide, p. 107 TCR
_____ Content Mastery, pp. 117, 119–120 TCR

Enrichment/Application

_____ Project, TWE p. 664
_____ Enrichment, TWE p. 664
_____ Extension, TWE p. 666

Close

_____ Discussion, TWE p. 666

Chapter Assessment

_____ Assessment, TWE pp. 662, 663, 666
_____ Alternate Assessment in the Science Classroom, TCR
_____ Performance Assessment in the Biology Classroom, TCR

Multimedia Options

_____ BDOL CD-ROM Section 24.2 Summary; Exploration: *Angiosperm*; Video: *Blooming Flowers*
_____ MindJogger Videoquizzes, Ch. 24 videotape
_____ ExamView®Pro Software, Ch. 24
_____ BDOL Videodisc: *Blooming Flowers*
_____ Using the Internet in the Science Classroom, TCR
_____ Glencoe Science Web Site: ga.science.glencoe.com

Lesson Plan 24.3

The Life Cycle of a Flowering Plant



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pp. 667–683

2 class session(s)

Section Objectives

- Describe the life cycle of a flowering plant.
- Outline the processes of seed and fruit formation and seed germination.

National Science Content Standards

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

Georgia QCC

1.1, 1.2, 1.3, 1.4, 2.1, 3.2, 18.3, 19.1, 19.2, 19.3

Focus

- _____ Section Focus Transparency 60 and Master Bellringer, TWE p. 667

Teach

- _____ Careers in Biology, SE p. 673
- _____ MiniLab 24-2, SE p. 677
- _____ Quick Demo, TWE pp. 668, 672
- _____ Biology Journal, TWE p. 668
- _____ Portfolio, TWE pp. 670, 676
- _____ Cultural Diversity, TWE p. 673
- _____ Alternative Lab, TWE p. 674
- _____ BioLab and MiniLab Worksheets, pp. 110–112 TCR
- _____ Laboratory Manual, pp. 171–178 TCR
- _____ Spanish Resources

Assess/Reteach

- _____ Section Assessment, SE p. 677
- _____ Reinforcement, TWE pp. 668, 670
- _____ Check for Understanding, TWE p. 677
- _____ Reteach, TWE p. 677
- _____ Reinforcement and Study Guide, p. 108 TCR
- _____ Content Mastery, pp. 117, 119–120 TCR
- _____ 5 Days to the Georgia High School Graduation Test, TCR

Enrichment/Application

- _____ Enrichment, TWE p. 671
- _____ Tech Prep, TWE pp. 672, 675
- _____ Extension, TWE p. 677
- _____ Critical Thinking/Problem Solving, p. 24 TCR

Close

- _____ Discussion, TWE p. 677

Chapter Assessment

- _____ Chapter Assessment, SE p. 681–683
- _____ Assessment, TWE pp. 669, 675, 676, 677, 679
- _____ BDOL Interactive CD-ROM, Chapter 24 quiz
- _____ Chapter Assessment, pp. 139–144 TCR
- _____ Alternate Assessment in the Science Classroom, TCR
- _____ Performance Assessment in the Biology Classroom, TCR

Multimedia Options

- _____ BDOL CD-ROM Section 24.3 Summary; Exploration: *Pollination*; Animation: *Double Fertilization, Fruit Formation, Seed Dispersal*; Video: *Germination*
- _____ MindJogger Videoquizzes, Ch. 24 videotape
- _____ ExamView®Pro Software, Ch. 24
- _____ BDOL Videodisc: *Double Fertilization, Fruit Formation, Seed Dispersal, Germination*
- _____ NGS Videodisc: *STV: Plants Using the Internet in the Science Classroom*, TCR
- _____ Glencoe Science Web Site: ga.science.glencoe.com