

Development of the Modern Periodic Table



► pages 151–158
► 1 class session(s)

Section Objectives

- Trace the development and identify key features of the periodic table.

National Science Content Standards

UCP.1, UCP.2, UCP.5; A.1, A.2; B.1, B.2; E.2; G.1, G.2, G.3

Georgia QCC

1, 1.2, 2, 2.1, 3.1, 5.1, 5.2

Focus

_____ Section Focus Transparency 20 and Master

Teach

- _____ Discovery Lab, SE p. 151
- _____ Problem-Solving Lab, SE p. 155
- _____ ChemLab 6, SE pp. 170–171
- _____ Quick Demo, TWE p. 153
- _____ Identifying Misconceptions, TWE p. 152
- _____ Chemistry Journal, TWE p. 157
- _____ Teaching Transparency 18 and Master
- _____ Spanish Resources, 6.1 TCR

Assess

- _____ Section Assessment, SE p. 158
- _____ Check for Understanding, TWE p. 158
- _____ Reteach, TWE p. 158
- _____ Study Guide for Content Mastery, pp. 31–32 TCR

Enrichment/Application

- _____ Extension, TWE p. 158
- _____ Cooperative Learning in the Science Classroom, TCR

Chapter Assessment

- _____ Assessment, TWE pp. 155, 156, 158
- _____ Alternate Assessment in the Science Classroom, TCR
- _____ Performance Assessment in the Science Classroom, TCR

Multimedia Options

- _____ Chemistry Interactive CD-ROM, Section 6.1 Exploration, Video, and Demonstration
- _____ Vocabulary PuzzleMaker Software, Ch. 6
- _____ Cosmic Chemistry Videodisc, Disc 3, Side 6; Disc 4, Side 8
- _____ Using the Internet in the Science Classroom, TCR
- _____ Chemistry Web site: ga.science.glencoe.com

Classification of the Elements

▶ pages 159–162
▶ 2 class session(s)

Section Objectives

- **Explain** why elements in the same group have similar properties.
- **Identify** the four blocks of the periodic table based on electron configuration.

National Science Content Standards

UCP.1, UCP.2, UCP.5; A.1; B.1, B.2

Georgia QCC

5.2, 5.3, 6, 6.1, 6.3

Focus

_____ Section Focus Transparency 21 and Master

Teach

- _____ Quick Demo, *TWE* p. 161
- _____ Chemistry Journal, *TWE* p. 161
- _____ *ChemLab and MiniLab Worksheets*, pp. 22–24, *TCR*
- _____ Teaching Transparency 19 and Master
- _____ *Spanish Resources*, 6.2 *TCR*

Assess

- _____ Section Assessment, *SE* p. 162
- _____ Check for Understanding, *TWE* p. 161
- _____ Reteach, *TWE* p. 162
- _____ *Study Guide for Content Mastery*, pp. 33–34 *TCR*
- _____ Math Skills Transparency 6 and Master

Enrichment/Application

- _____ *Challenge Problems*, p. 6 *TCR*
- _____ *Cooperative Learning in the Science Classroom*, *TCR*

Chapter Assessment

- _____ Assessment, *TWE* pp. 161, 162
- _____ *Alternate Assessment in the Science Classroom*, *TCR*
- _____ *Performance Assessment in the Science Classroom*, *TCR*

Multimedia Options

- _____ **Chemistry Interactive CD-ROM**, Section 6.2 Experiment
- _____ **Vocabulary PuzzleMaker Software**, Ch. 6
- _____ *Using the Internet in the Science Classroom*, *TCR*
- _____ Chemistry Web site: ga.science.glencoe.com

Periodic Trends



► pages 163–169
► 3 class session(s)

Section Objectives

- Compare period and group trends of several properties.
- Relate period and group trends in atomic radii to electron configuration.

National Science Content Standards

UCP.1, UCP.2, UCP.5; A.1, A.2; B.1, B.2, B.6; E.1, E.2; G.2, G.3

Georgia QCC

1, 1.2, 2, 2.1, 3.1, 5.2, 5.3, 6, 6.1

Focus

_____ Section Focus Transparency 22 and Master

Teach

- _____ MiniLab, SE p. 164
- _____ How It Works, SE p. 172
- _____ Quick Demo, TWE p. 168
- _____ Chemistry Journal, TWE p. 168
- _____ ChemLab and MiniLab Worksheets, pp. 21–24 TCR
- _____ Laboratory Manual, pp. 41–48 TCR
- _____ Teaching Transparencies 20–21 and Masters
- _____ Spanish Resources, 6.3 TCR

Assess

- _____ Section Assessment, SE p. 169
- _____ Check for Understanding, TWE p. 169
- _____ Reteach, TWE p. 169
- _____ Study Guide for Content Mastery, pp. 35–36 TCR
- _____ Reviewing Chemistry: Preparing for the Georgia High School Graduation Test, TCR

Enrichment/Application

- _____ Supplemental Problems, p. 9 TCR
- _____ Cooperative Learning in the Science Classroom, TCR

Chapter Assessment

- _____ Chapter 6 Assessment, SE pp. 174–177
- _____ Assessment, TWE pp. 164, 166, 167, 169
- _____ Chapter Assessment, pp. 31–36 TCR
- _____ Alternate Assessment in the Science Classroom, TCR
- _____ Performance Assessment in the Science Classroom, TCR

Multimedia Options

- _____ Chemistry Interactive CD-ROM, Section 6.3 Animation
- _____ Vocabulary PuzzleMaker Software, Ch. 6
- _____ MindJogger Videoquizzes, Ch. 6
- _____ TestCheck Software, Ch. 6
- _____ Chemistry Interactive CD-ROM, Chapter 6 quiz
- _____ Using the Internet in the Science Classroom, TCR
- _____ Chemistry Web site: ga.science.glencoe.com