

The Stories of Two Chemicals



► pages 3–6
► 1/2 class session(s)

Section Objectives

- **Explain** the formation and importance of ozone.
- **Describe** the development of chlorofluorocarbons.

National Science Content Standards

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

Georgia QCC

1, 1.2, 2, 2.1, 3.1, 9.6

Focus

_____ Section Focus Transparency 1 and Master

Teach

- _____ Discovery Lab, *SE* p. 3
 _____ Quick Demo, *TWE* pp. 3, 4
 _____ Chemistry Journal, *TWE* p. 5
 _____ Teaching Transparency 1 and Master
 _____ *Spanish Resources*, 1.1 *TCR*

Assess

- _____ Section Assessment, *SE* p. 6
 _____ Check for Understanding, *TWE* p. 5
 _____ Reteach, *TWE* p. 5
 _____ *Study Guide for Content Mastery*, p. 1 *TCR*

Enrichment/Application

- _____ Extension, *TWE* p. 6
 _____ *Challenge Problems*, p. 1 *TCR*
 _____ *Cooperative Learning in the Science Classroom*, *TCR*

Chapter Assessment

- _____ Assessment, *TWE* pp. 4, 6
 _____ *Alternate Assessment in the Science Classroom*, *TCR*
 _____ *Performance Assessment in the Science Classroom*, *TCR*

Multimedia Options

- _____ **Vocabulary PuzzleMaker Software**, Ch. 1
 _____ **Cosmic Chemistry Videodisc**, Disc 4, Side 8
 _____ *Using the Internet in the Science Classroom*, *TCR*
 _____ Chemistry Web site: ga.science.glencoe.com

Chemistry and Matter

▶ pages 7–9
▶ 1/2 class session(s)

Section Objectives

- **Define** chemistry and matter.
- **Compare** and **contrast** mass and weight.
- **Explain** why chemists are interested in a submicroscopic description of matter.

National Science Content Standards

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

Georgia QCC

4

Focus

_____ Section Focus Transparency 2 and Master

Teach

- _____ Problem-Solving Lab, *SE* p. 8
- _____ Quick Demo, *TWE* p. 7
- _____ *Spanish Resources*, 1.2 *TCR*

Assess

- _____ Section Assessment, *SE* p. 9
- _____ Check for Understanding, *TWE* p. 8
- _____ Reteach, *TWE* p. 9
- _____ *Study Guide for Content Mastery*, pp. 2–3 *TCR*

Enrichment/Application

_____ *Cooperative Learning in the Science Classroom*, *TCR*

Chapter Assessment

- _____ Assessment, *TWE* p. 9
- _____ *Alternate Assessment in the Science Classroom*, *TCR*
- _____ *Performance Assessment in the Science Classroom*, *TCR*

Multimedia Options

- _____ **Chemistry Interactive CD-ROM**, Section 1.2 Demonstration
- _____ **Vocabulary PuzzleMaker Software**, Ch. 1
- _____ *Using the Internet in the Science Classroom*, *TCR*
- _____ Chemistry Web site: ga.science.glencoe.com

Scientific Methods

▶ pages 10–13
▶ 1 class session(s)

Section Objectives

- **Identify** the common steps of scientific methods.
- **Compare** and **contrast** types of data.
- **Compare** and **contrast** types of variables.
- **Describe** the difference between a theory and a scientific law.

National Science Content Standards

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

Georgia QCC

1.2, 2

Focus

_____ Section Focus Transparency 3 and Master

Teach

- _____ ChemLab 1, *SE* p. 18–19
- _____ Quick Demo, *TWE* p. 10
- _____ Identifying Misconceptions, *TWE* p. 12
- _____ Chemistry Journal, *TWE* p. 12
- _____ *ChemLab and MiniLab Worksheets*, pp. 2–4 *TCR*
- _____ *CBL Laboratory Manual*, pp. 1–4 *TCR*
- _____ *Laboratory Manual*, pp. 1–4 *TCR*
- _____ Teaching Transparency 2 and Master
- _____ *Spanish Resources*, 1.3 *TCR*

Assess

- _____ Section Assessment, *SE* p. 13
- _____ Check for Understanding, *TWE* p. 13
- _____ Reteach, *TWE* p. 13
- _____ *Study Guide for Content Mastery*, pp. 4–5 *TCR*

Enrichment/Application

- _____ Extension, *TWE* pp. 11, 13
- _____ *Cooperative Learning in the Science Classroom*, *TCR*

Chapter Assessment

- _____ Assessment, *TWE* pp. 11, 13
- _____ *Alternate Assessment in the Science Classroom*, *TCR*
- _____ *Performance Assessment in the Science Classroom*, *TCR*

Multimedia Options

- _____ **Vocabulary PuzzleMaker Software**, Ch. 1
- _____ *Using the Internet in the Science Classroom*, *TCR*
- _____ Chemistry Web site: ga.science.glencoe.com

Scientific Research



► pages 14–17
► 1 class session(s)

Section Objectives

- Compare and contrast pure research, applied research, and technology.
- Apply knowledge of laboratory safety.

National Science Content Standards

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

Georgia QCC

1, 1.1, 1.2, 2, 2.1, 3.1, 4, 9.6

Focus

_____ Section Focus Transparency 4 and Master

Teach

- _____ MiniLab, SE p. 15
- _____ Chemistry and Society, SE p. 20
- _____ Quick Demo, TWE p. 14
- _____ Chemistry Journal, TWE p. 14
- _____ ChemLab and MiniLab Worksheets, p. 1 TCR
- _____ Laboratory Manual, pp. 5–8 TCR
- _____ Teaching Transparency 3 and Master
- _____ Spanish Resources, 1.4 TCR

Assess

- _____ Section Assessment, SE p. 17
- _____ Check for Understanding, TWE p. 17
- _____ Reteach, TWE p. 17
- _____ Study Guide for Content Mastery, p. 6 TCR
- _____ Reviewing Chemistry: Preparing for the Georgia High School Graduation Test, TCR

Enrichment/Application

- _____ Extension, TWE p. 17
- _____ Cooperative Learning in the Science Classroom, TCR

Chapter Assessment

- _____ Chapter 1 Assessment, SE pp. 22–23
- _____ Assessment, TWE pp. 15, 17, 19
- _____ Chapter Assessment, pp. 1–6 TCR
- _____ Alternate Assessment in the Science Classroom, TCR
- _____ Performance Assessment in the Science Classroom, TCR

Multimedia Options

- _____ Vocabulary PuzzleMaker Software, Ch. 1
- _____ MindJogger Videoquizzes, Ch. 1
- _____ TestCheck Software, Ch. 1
- _____ Cosmic Chemistry Videodisc, Disc 1, Side 1; Disc 3, Side 6
- _____ Chemistry Interactive CD-ROM, Chapter 1 quiz
- _____ Using the Internet in the Science Classroom, TCR
- _____ Chemistry Web site: ga.science.glencoe.com