

Alkanes

▶ pages 697–705
▶ 1 class session(s)

Section Objectives

- **Describe** the structures of alkanes.
- **Name** an alkane by examining its structure.
- **Draw** the structure of an alkane given its name.

National Science Content Standards

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

Georgia QCC

1, 1.2, 2.1, 3.1, 5.1, 6, 8, 8.1 8.2, 17

Focus

_____ Section Focus Transparency 81 and Master

Teach

- _____ Discovery Lab, *SE* p. 697
- _____ ChemLab 22, *SE* pp. 728–729
- _____ Quick Demo, *TWE* p. 699
- _____ Identifying Misconceptions, *TWE* p. 703
- _____ Chemistry Journal, *TWE* pp. 700, 704
- _____ *ChemLab and MiniLab Worksheets*, pp. 86–88 *TCR*
- _____ *Spanish Resources*, 22.1 *TCR*

Assess

- _____ Section Assessment, *SE* p. 705
- _____ Check for Understanding, *TWE* p. 704
- _____ Reteach, *TWE* p. 704
- _____ *Study Guide for Content Mastery*, p. 127 *TCR*

Enrichment/Application

- _____ Extension, *TWE* pp. 701, 705
- _____ *Challenge Problems*, p. 22 *TCR*
- _____ *Cooperative Learning in the Science Classroom*, *TCR*

Chapter Assessment

- _____ Assessment, *TWE* pp. 700, 703, 705
- _____ *Alternate Assessment in the Science Classroom*, *TCR*
- _____ *Performance Assessment in the Science Classroom*, *TCR*

Multimedia Options

- _____ **Chemistry Interactive CD-ROM**, Section 22.1 Demonstration
- _____ **Vocabulary PuzzleMaker Software**, Ch. 22
- _____ *Using the Internet in the Science Classroom*, *TCR*
- _____ Chemistry Web site: ga.science.glencoe.com

Cyclic Alkanes and Alkane Properties

▶ pages 706–710
▶ 1 class session(s)

Section Objectives

- **Name** a cyclic alkane by examining its structure.
- **Draw** the structure of a cyclic alkane given its name.
- **Describe** the properties of alkanes.
- **Distinguish** between saturated and unsaturated hydrocarbons.

National Science Content Standards

UCP.2, UCP.5; A.1; B.2, B.4, B.6

Georgia QCC

8, 8.1, 8.2, 8.3, 8.4, 17

Focus

_____ Section Focus Transparency 82 and Master

Teach

- _____ Chemistry Journal, *TWE* p. 708
- _____ *Laboratory Manual*, pp. 169–172 *TCR*
- _____ *Spanish Resources*, 22.2 *TCR*

Assess

- _____ Section Assessment, *SE* p. 710
- _____ Check for Understanding, *TWE* p. 710
- _____ Reteach, *TWE* p. 710
- _____ *Study Guide for Content Mastery*, p. 128 *TCR*
- _____ Math Skills Transparency 34 and Master

Enrichment/Application

- _____ Extension, *TWE* p. 710
- _____ *Cooperative Learning in the Science Classroom*, *TCR*

Chapter Assessment

- _____ Assessment, *TWE* pp. 709, 710
- _____ *Alternate Assessment in the Science Classroom*, *TCR*
- _____ *Performance Assessment in the Science Classroom*, *TCR*

Multimedia Options

- _____ **Vocabulary PuzzleMaker Software**, Ch. 22
- _____ **Cosmic Chemistry Videodisc**, Disc 1, Side 2
- _____ *Using the Internet in the Science Classroom*, *TCR*
- _____ Chemistry Web site: ga.science.glencoe.com

Alkenes and Alkynes

▶ pages 711–716
▶ 1 1/2 class session(s)

Section Objectives

- **Compare** the properties of alkenes and alkynes with those of alkanes.
- **Describe** the molecular structures of alkenes and alkynes.
- **Name** an alkene or alkyne by examining its structure.
- **Draw** the structure of an alkene or alkyne by analyzing its name.

National Science Content Standards

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

Georgia QCC

1, 1.2, 3.1, 8, 8.1, 8.2, 8.3, 8.4, 9.1, 9.6, 17

Focus

_____ Section Focus Transparency 83 and Master

Teach

- _____ MiniLab, SE p. 715
- _____ Quick Demo, TWE p. 712
- _____ Chemistry Journal, TWE p. 714
- _____ ChemLab and MiniLab Worksheets, p. 85 TCR
- _____ Spanish Resources, 22.3 TCR

Assess

- _____ Section Assessment, SE p. 716
- _____ Check for Understanding, TWE p. 716
- _____ Reteach, TWE p. 716
- _____ Study Guide for Content Mastery, p. 129 TCR
- _____ Math Skills Transparencies 35–36 and Masters

Enrichment/Application

- _____ Extension, TWE p. 716
- _____ Cooperative Learning in the Science Classroom, TCR

Chapter Assessment

- _____ Assessment, TWE pp. 713, 715, 716
- _____ Alternate Assessment in the Science Classroom, TCR
- _____ Performance Assessment in the Science Classroom, TCR

Multimedia Options

- _____ Chemistry Interactive CD-ROM, Section 22.3 Demonstration
- _____ Vocabulary PuzzleMaker Software, Ch. 22
- _____ Using the Internet in the Science Classroom, TCR
- _____ Chemistry Web site: ga.science.glencoe.com

Isomers

▶ pages 717–721
▶ 1 1/2 class session(s)

Section Objectives

- **Distinguish** between the two main categories of isomers, structural isomers and stereoisomers.
- **Differentiate** between *cis*- and *trans*- geometric isomers.
- **Recognize** different structural isomers given a structural formula.
- **Describe** the structural variation in molecules that results in optical isomers.

National Science Content Standards

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

Georgia QCC

8, 8.1, 17

Focus

_____ Section Focus Transparency 84 and Master

Teach

- _____ Problem-Solving Lab, *SE* p. 720
- _____ Quick Demo, *TWE* p. 719
- _____ Chemistry Journal, *TWE* p. 720
- _____ Teaching Transparency 66 and Master
- _____ *Laboratory Manual*, pp. 173–176 *TCR*
- _____ *Spanish Resources*, 22.4 *TCR*

Assess

- _____ Section Assessment, *SE* p. 721
- _____ Check for Understanding, *TWE* p. 721
- _____ Reteach, *TWE* p. 721
- _____ *Study Guide for Content Mastery*, p. 130 *TCR*

Enrichment/Application

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

Chapter Assessment

- _____ Assessment, *TWE* pp. 718, 719, 721
- _____ *Alternate Assessment in the Science Classroom*, *TCR*
- _____ *Performance Assessment in the Science Classroom*, *TCR*

Multimedia Options

- _____ **Chemistry Interactive CD-ROM**, Section 22.4 Animation and Experiment
- _____ **Vocabulary PuzzleMaker Software**, Ch. 22
- _____ *Using the Internet in the Science Classroom*, *TCR*
- _____ Chemistry Web site: ga.science.glencoe.com

Aromatic Hydrocarbons and Petroleum

▶ pages 722–727
▶ 2 class session(s)

Section Objectives

- **Compare** and **contrast** the properties of aromatic and aliphatic hydrocarbons.
- **Explain** what a carcinogen is and list some examples.
- **Describe** the processes used to separate petroleum into fractions and to balance each fraction's output with market demands.
- **Identify** the fractions into which petroleum can be separated.

National Science Content Standards

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

Georgia QCC

1, 1.2, 2, 2.1, 3.1, 4, 5.2, 6, 8, 8.1, 8.4, 9.1, 14, 15.3, 17

Focus

_____ Section Focus Transparency 85 and Master

Teach

- _____ Everyday Chemistry, SE p. 730
 _____ Quick Demo, TWE p. 723
 _____ Chemistry Journal, TWE p. 726
 _____ Teaching Transparency 67 and Master
 _____ Spanish Resources, 22.5 TCR

Assess

- _____ Section Assessment, SE p. 727
 _____ Check for Understanding, TWE p. 726
 _____ Reteach, TWE p. 726
 _____ Study Guide for Content Mastery, pp. 131–132 TCR
 _____ Reviewing Chemistry: Preparing for the Georgia High School Graduation Test, TCR

Enrichment/Application

- _____ Extension, TWE p. 727
 _____ Supplemental Problems, pp. 35–36 TCR
 _____ Cooperative Learning in the Science Classroom, TCR

Chapter Assessment

- _____ Chapter 22 Assessment, SE pp. 732–735
 _____ Assessment, TWE pp. 723, 724, 725, 727, 729
 _____ Chapter Assessment, pp. 127–132 TCR
 _____ Alternate Assessment in the Science Classroom, TCR
 _____ Performance Assessment in the Science Classroom, TCR

Multimedia Options

- _____ Chemistry Interactive CD-ROM, Section 22.5 Video
 _____ Vocabulary PuzzleMaker Software, Ch. 22
 _____ MindJogger Videoquizzes, Ch. 22
 _____ TestCheck Software, Ch. 22
 _____ Cosmic Chemistry Videodisc, Disc 3, Side 6
 _____ Chemistry Interactive CD-ROM, Chapter 22 quiz
 _____ Using the Internet in the Science Classroom, TCR
 _____ Chemistry Web site: ga.science.glencoe.com