

**SECTION**  
**3****Reinforcement****CHAPTER 23.3 REVIEW****Petroleum—A Source of Organic Compounds**

**Directions:** For each of the following write the letter of the term or phrase that best completes the sentence.

- \_\_\_\_\_ 1. Fossil fuels include all of the following EXCEPT \_\_\_\_\_.  
a. coal                      b. oxygen                      c. natural gas                      d. petroleum
- \_\_\_\_\_ 2. Petroleum compounds can be separated because their \_\_\_\_\_ differ.  
a. fossils                      c. boiling points  
b. benzene rings                      d. densities
- \_\_\_\_\_ 3. A structure used to separate petroleum compounds is called a(n) \_\_\_\_\_.  
a. double helix                      c. centrifuge  
b. oil derrick                      d. fractionating tower
- \_\_\_\_\_ 4. Petroleum fractions with the \_\_\_\_\_ may never condense and are collected as gases.  
a. lowest boiling points                      c. longest polymer chains  
b. highest boiling points                      d. largest benzene rings
- \_\_\_\_\_ 5. Petroleum fractions with 5 to 10 carbons are used to make \_\_\_\_\_.  
a. lubrication grease                      c. gasoline  
b. kerosene                      d. asphalt
- \_\_\_\_\_ 6. A gas that comes from petroleum is \_\_\_\_\_.  
a. octane                      b. diesel fuel                      c. ethanol                      d. propane
- \_\_\_\_\_ 7. A large molecule that consists of two or more monomers is called a \_\_\_\_\_.  
a. fraction                      b. polymer                      c. fossil                      d. dye
- \_\_\_\_\_ 8. Polyethylene is used to make \_\_\_\_\_.  
a. shopping bags                      c. saccharin  
b. jet fuel                      d. printers ink
- \_\_\_\_\_ 9. Two or more different monomers will link to form a(n) \_\_\_\_\_.  
a. epoxy glue                      b. aspirin                      c. copolymer                      d. natural gas
- \_\_\_\_\_ 10. A synthetic dye discovered accidentally in coal tar is \_\_\_\_\_.  
a. indigo                      b. propane                      c. butane                      d. mauve

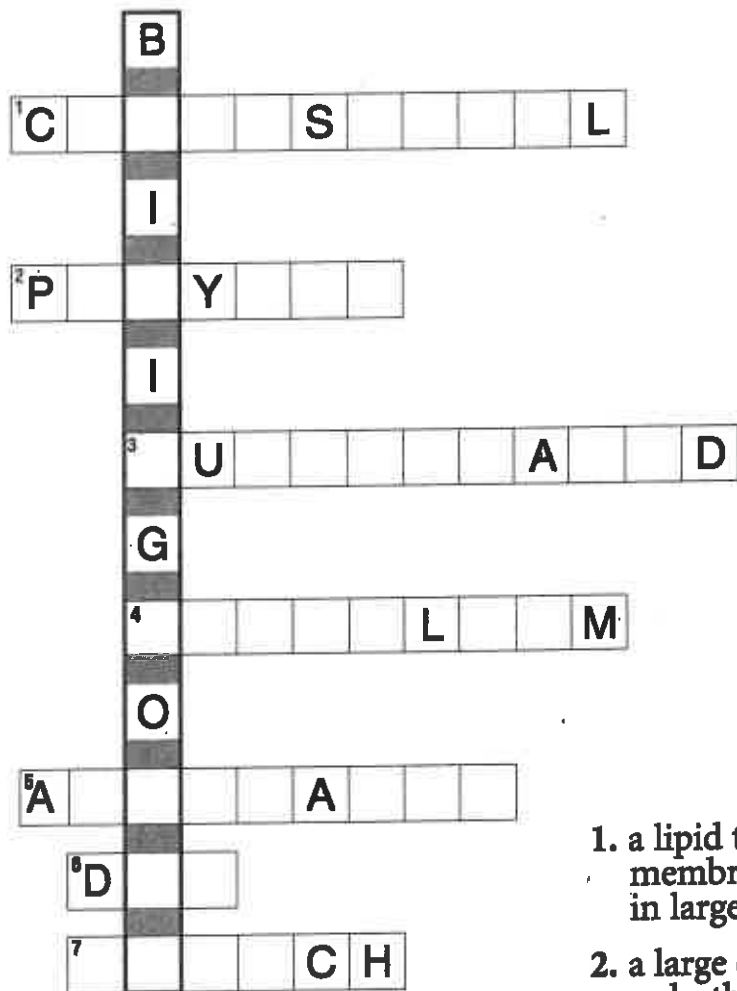


Directed Reading for  
Content Mastery

**Section 3 ■ Petroleum—A  
Source of Carbon  
Compounds**

**Section 4 ■ Biological  
Compounds**

**Directions:** Write the term that matches each description below in the spaces provided. The boxed letters should spell the term that answers question 8.



1. a lipid that is needed for building cell membranes, but can lead to heart disease in large amounts

2. a large chainlike molecule such as polyethylene or polypropylene

3. a type of biological compound made up of nucleotides

4. a source of organic compounds that is also known as crude oil

5. a monomer of a protein molecule

6. a type of nucleic acid that stores genetic information in the nuclei of cells

7. a carbohydrate that is made up of monomers of sugar

8. What property allows chemists to separate gasoline from asphalt and paint thinner from jet fuel?