

**Carbon Chemistry** ▪ *Reading/Notetaking Guide***Polymers and Composites** (pp. 306–313)

*This section explains how large, complex molecules form. It also describes properties of materials made of two or more substances.*

**Use Target Reading Skills**

*The information in this book is organized with red headings and blue subheadings. Before you read, preview each red heading and blue subheading. Ask a question for each red heading to guide you as you read the topic. Answer the questions as you read.*

Polymers and Composites		
Heading	Question	Answer
Forming Polymers	How do polymers form?	
Polymers and Composites		
Recycling Plastics		

**Introduction** (p. 306)

1. What is a polymer?

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2. Most polymers rely on the element \_\_\_\_\_ for their structures.

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**Forming Polymers** (p. 307)

3. The smaller molecules from which polymers are built are called \_\_\_\_\_.

4. How do polymers form?

\_\_\_\_\_

\_\_\_\_\_

**Polymers and Composites** (pp. 308–312)

5. Is the following sentence true or false? Living things produce many natural materials made of large polymer molecules. \_\_\_\_\_

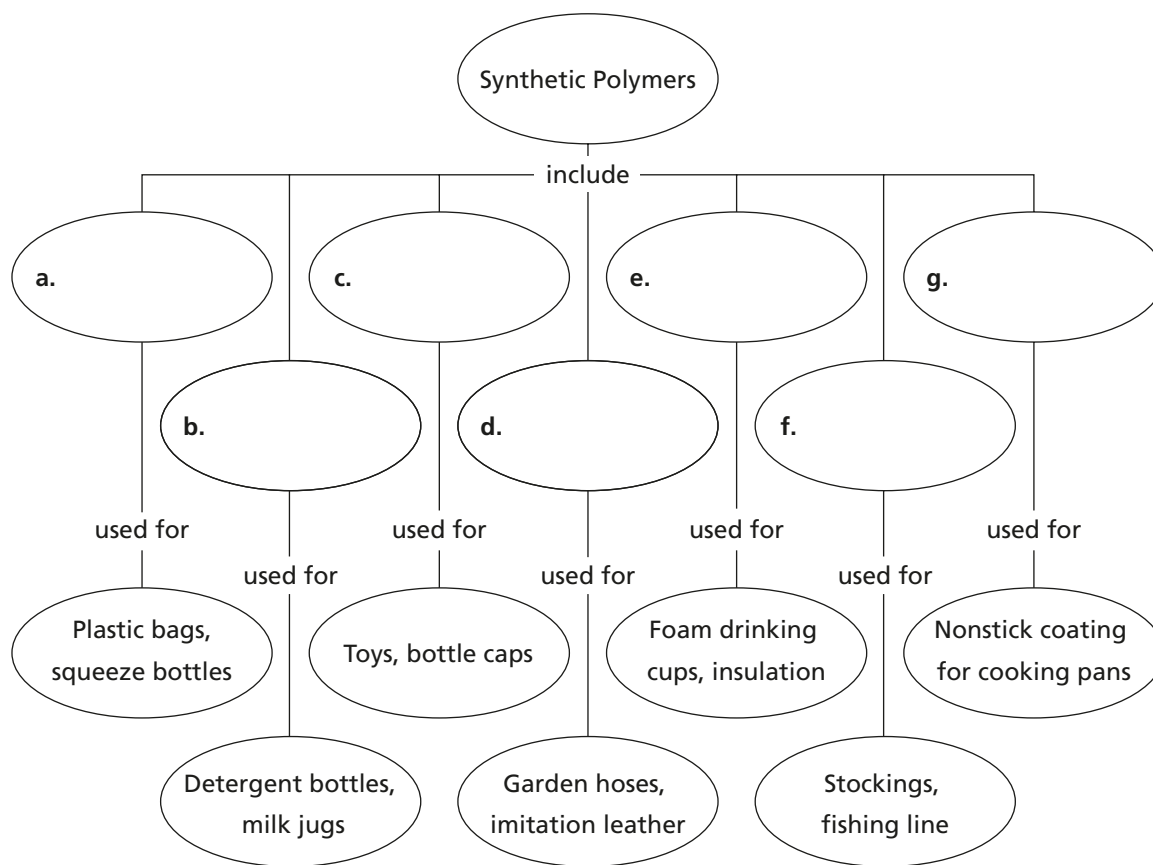
6. List two polymers made by plants.

\_\_\_\_\_

7. Is the following sentence true or false? Your best wool sweater is made from natural polymers. \_\_\_\_\_

8. In your body, proteins are polymers assembled from monomers called \_\_\_\_\_.

9. Complete the concept map about synthetic polymers.



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**Polymers and Composites** *(continued)*

10. The starting materials for most synthetic polymers come from

\_\_\_\_\_

11. What are plastics?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

12. Why are synthetic polymers often used in place of some natural materials?

\_\_\_\_\_

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\_\_\_\_\_

13. What are composites?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

14. Is the following sentence true or false? Composite materials never include polymers. \_\_\_\_\_

15. \_\_\_\_\_ is a synthetic composite made of glass fibers and liquid plastic.

**Recycling Plastics** (pp. 312–313)

16. What are two disadvantages of using plastics?

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17. What is one solution to solve the problems of plastics?

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