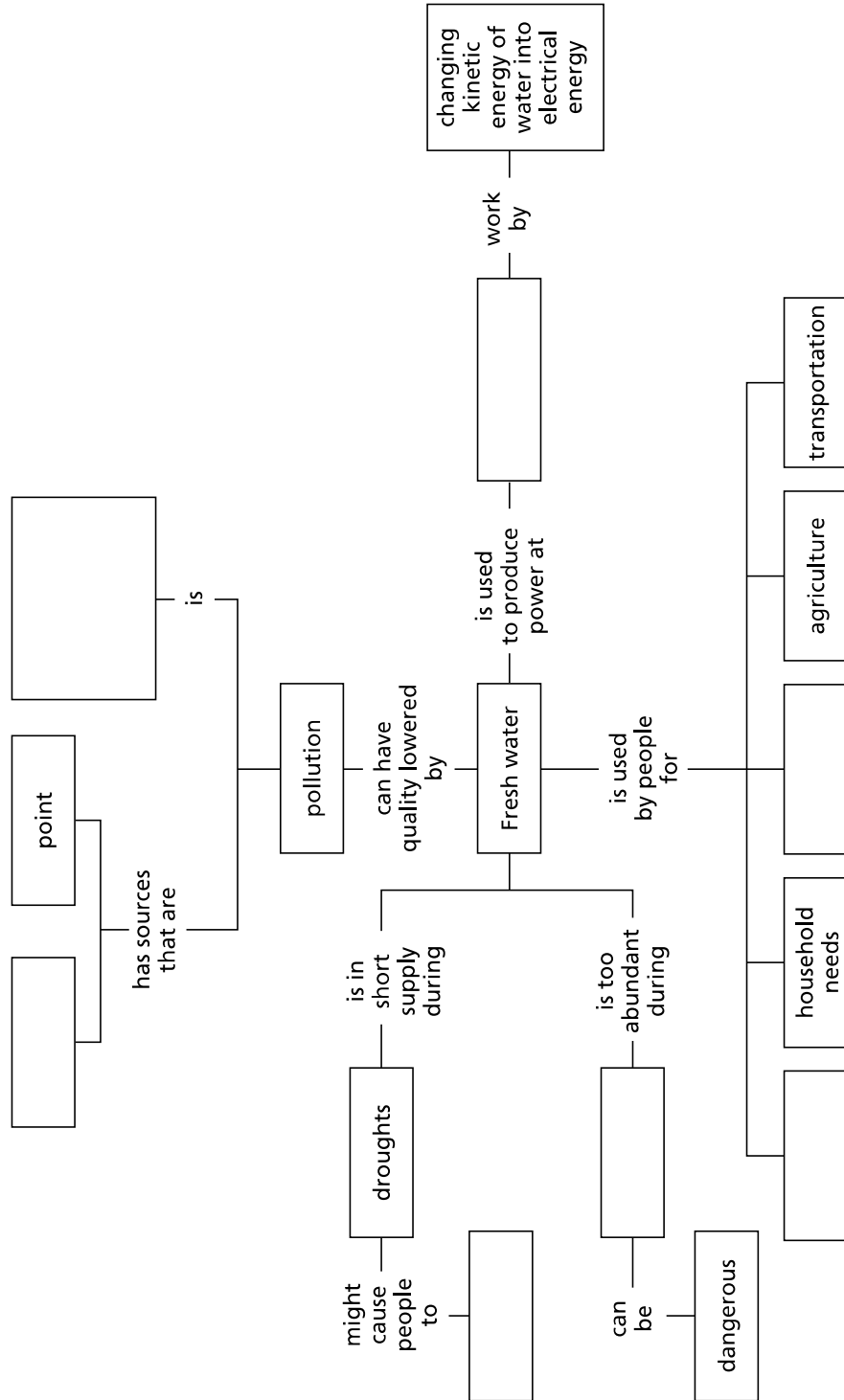


**Freshwater Resources** ▪ *Connecting Concepts*

**Connecting Concepts**

Develop a concept map that uses the key concepts and key terms from this chapter. Keep in mind the big idea of this chapter. The concept map shown is one way to organize the information in this chapter. You may use an extra sheet of paper.



**Freshwater Resources** ▪ *Key Terms*

**Key Terms**

Solve the clues with key terms from Chapter 3. Then put the numbered letters in order to reveal the message.

**Clues**

**Key Terms**

- |  |                       |
|--|-----------------------|
| 1. Combined level of calcium and magnesium in water                        | _____ 1 _____ 2 _____ |
| 2. Sticky globs created during water treatment                             | _____ 3 _____         |
| 3. Chemical intended to kill insects or other pests                        | _____ 4 _____ 5 _____ |
| 4. Amount of one substance in a certain volume of another                  | _____ 6 7 _____       |
| 5. Type of underground tank that contains bacteria for treating wastewater | _____ 8 9 _____       |
| 6. Using a resource wisely   | _____ 10 11 _____     |
| 7. Sediments that settle out during waste water treatment                  | _____ 12 _____        |
| 8. Water containing human wastes   | _____ 13 14 _____     |
| 9. Process of passing water through screens to remove objects              | _____ 15 _____        |
| 10. Process of removing salt from water                                    | _____ 16 _____        |
| 11. Water shortage due to long periods of low precipitation                | _____ 17 _____        |

**Hidden Message**

\_\_\_\_\_ 1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_ 4 \_\_\_\_\_ 5 \_\_\_\_\_ 6 \_\_\_\_\_ 7 \_\_\_\_\_ 8 \_\_\_\_\_ 9 \_\_\_\_\_ 10 \_\_\_\_\_ 11 \_\_\_\_\_ 12 \_\_\_\_\_  
 \_\_\_\_\_ 13 \_\_\_\_\_ 14 \_\_\_\_\_ 15 \_\_\_\_\_ 16 \_\_\_\_\_ 17 \_\_\_\_\_



**Freshwater Resources** ▪ *Chapter Test*

**Completion**

*Fill in the line to complete each statement.*

11. In a process called \_\_\_\_\_, particles in water clump together onto flocs.
12. When water is carried into fields in open irrigation ditches, much of it is lost to \_\_\_\_\_.
13. Any substance that causes water pollution is called a \_\_\_\_\_.
14. The process of obtaining fresh water from salt water is called \_\_\_\_\_.
15. The kind of energy that an object has when it is moving is called \_\_\_\_\_ energy.

**True or False**

*If the statement is true, write true. If it is false, change the underlined word or words to make the statement true.*

- \_\_\_\_\_ 16. Water quality is a measure of the substances in water besides water molecules.
- \_\_\_\_\_ 17. A water shortage occurs when there is too great a supply in an area.
- \_\_\_\_\_ 18. Oil that washes off a road into a stream is an example of a nonpoint source of pollution.
- \_\_\_\_\_ 19. Because of sewage pollution, people should boil water for drinking and cooking after a drought.
- \_\_\_\_\_ 20. Water stored behind a dam has kinetic energy.

**Freshwater Resources** ▪ *Chapter Test (continued)*

**Using Science Skills**

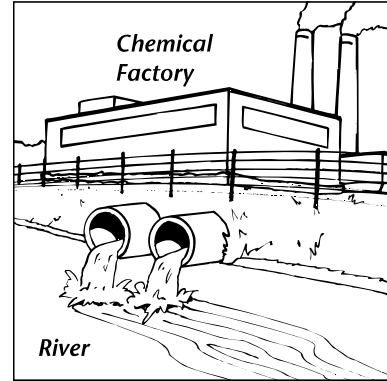
*Use the illustration below to answer the questions that follow.*

- 21. Observing** What is occurring in the illustration that could affect a drinking-water supply?

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- 22. Classifying** Is this an example of a point source of pollution or a nonpoint source? Explain.

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- 23. Drawing Conclusions** What could the company do to stop the harm being done to the water in the river?

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**Essay**

*Write an answer for each of the following.*

- 24.** What is the purpose of drinking-water treatment? Describe a typical treatment process at a city plant.

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- 25.** How do fertilizers in agricultural runoff affect lakes and ponds?

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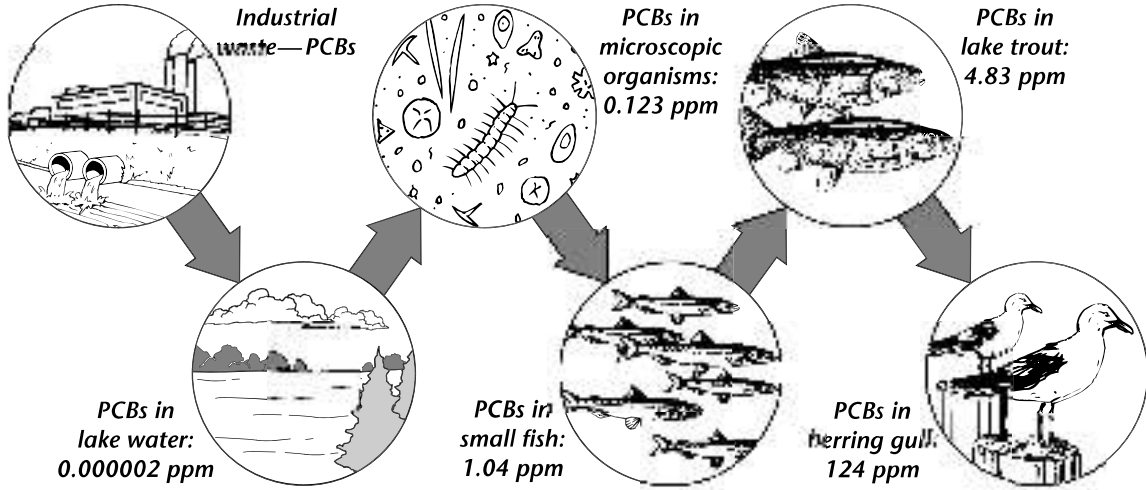
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**Freshwater Resources** ▪ *Chapter Test*

**Using Science Skills**

Use the flow chart below to answer the following questions. If you need more space, use the back of this sheet.



**26. Interpreting Data** PCBs are a type of industrial pollutant. Refer to the flowchart and describe how the concentration of PCBs changes. Explain why this change occurs.

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**27. Relating Cause and Effect** Explain how humans could be affected by PCB pollution.

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**Essay**

Write an answer for each of the following. Use the back of this sheet if you need more space.

**28.** Explain how a water shortage can be caused by changes in either supply or demand.

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**29.** Explain what causes acid rain. How does acid rain affect wildlife?

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**30.** How can moving water produce electricity?

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