

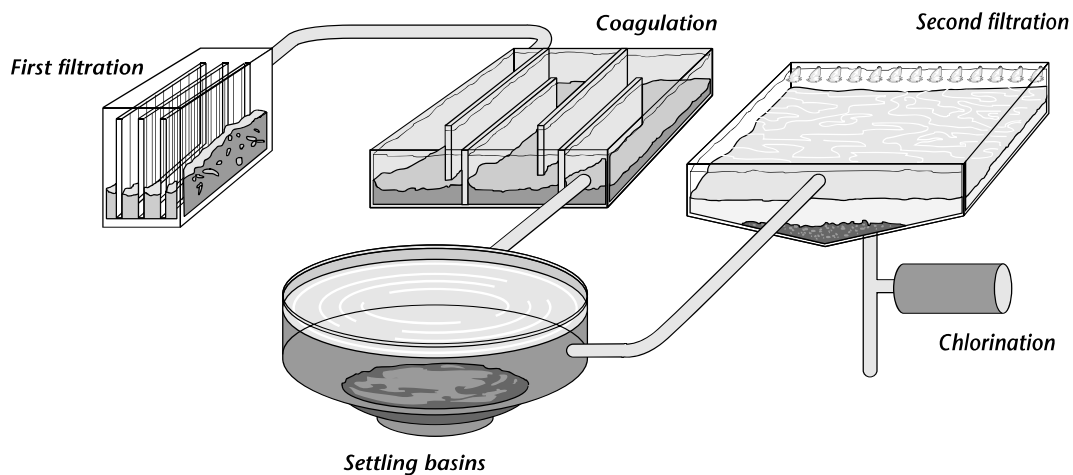


**Freshwater Resources** ▪ *Guided Reading and Study*

4. A measurement of those substances in water other than water molecules is referred to as \_\_\_\_\_.
5. Is the following sentence true or false? The pH of water is a measurement of how acidic or basic the water is. \_\_\_\_\_
6. Is the following sentence true or false? The higher the pH, the more acidic the water. \_\_\_\_\_
7. How can acidic water cause problems?  
\_\_\_\_\_  
\_\_\_\_\_
8. The combined level of calcium and magnesium in water is referred to as \_\_\_\_\_.
9. What is the main problem with hard water for most people?  
\_\_\_\_\_  
\_\_\_\_\_
10. What does the coliform count measure?  
\_\_\_\_\_  
\_\_\_\_\_
11. Is the following sentence true or false? A high coliform count may indicate that the water contains more than one kind of disease-causing organism.  
\_\_\_\_\_
12. The amount of one substance in a certain volume of another substance is called \_\_\_\_\_.
13. Is the following sentence true or false? EPA water-quality standards allow drinking water to contain only water molecules. \_\_\_\_\_

**Treating Drinking Water**

14. Add arrows to the drawing to show the direction in which water moves through a water treatment plant.



**Freshwater Resources** ▪ *Guided Reading and Study*

**Water to Drink** *(continued)*

15. When alum is added to water, sticky globs, or \_\_\_\_\_, form.

Match the step in the water treatment process with its description.

<b>Step</b>	<b>Description</b>
____ 16. filtration	a. Water is treated to create flocs.
____ 17. coagulation	b. Water is treated to kill microorganisms.
____ 18. chlorination	c. Water is passed through screens to remove objects.

19. Circle the letter of the choice that shows the correct sequence that water follows after it has been treated.

- a. Small pipes, central pumping station, water mains
- b. Central pumping station, water mains, small pipes
- c. Water mains, small pipes, central pumping station
- d. Central pumping station, small pipes, water mains

20. What causes the water to move through a community's system of underground water pipes?

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**Freshwater Resources** ▪ *Guided Reading and Study*

**Treating Wastewater**

21. Sewage is carried away from many homes by \_\_\_\_\_.

22. Complete the table.

**Wastewater Terms**

Term	What It Means
a.	Wastewater and the different kinds of wastes that it contains
b.	Deposits of fine solids that settle out from wastewater in a septic system
c.	Treated wastewater that you cannot drink

23. An underground tank containing bacteria that treat wastewater is called a(n) \_\_\_\_\_.

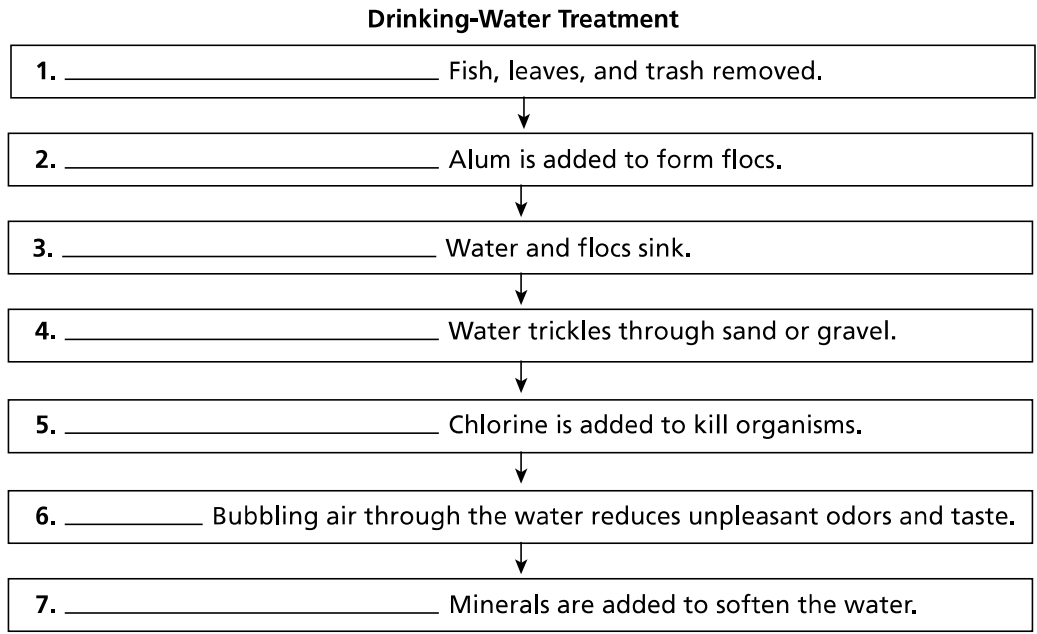
24. The area of ground in a septic system that the water filters through is called a(n) \_\_\_\_\_.

**Freshwater Resources** ▪ *Review and Reinforce*

# Water to Drink

## Understanding Main Ideas

Complete the flowchart by filling in the spaces with the names of the steps.



## Building Vocabulary

Match each term with its definition by writing the letter of the correct definition on the line beside the term in the left column.

- |                         |   |
|-------------------------|---|
| _____ 8. filtration     | a. a measurement of how acidic or basic a substance is  |
| _____ 9. concentration  | b. wastewater and the different kinds of wastes in it   |
| _____ 10. pH            | c. forming of heavy clumps  |
| _____ 11. hardness      | d. the total amount of calcium and magnesium in water   |
| _____ 12. water quality | e. process of passing water through a series of screens that allow the water to pass, but not solid particles |
| _____ 13. sewage        | f. the amount of one substance in a certain volume of another substance                                       |
| _____ 14. coagulation   | g. the measurement of substances in water other than water molecules  |