Name _____
Date _____

Chapter Assessment

Using Resources

Vocabulary 4 points each

Match each term in Column B with its meaning in Column A.

	Column A	Column B
B	1. A resource that cannot be replaced within a human lifetime	A. renewable resource
D	2. The act of preserving or protecting natural resources	B. nonrenewable resource
A	3. A resource that can be replaced within a human lifetime	C. pollution
C	4. A change in the environment that is harmful to living things	D. conservation

Science Concepts 4 points each

Write the letter of the best choice.

B 5. Which of these resources is nonrenewable?
A. air C. sunlight
B. soil D. water

J 6. Harry gives his outgrown jacket to his younger brother. What kind of conservation is this?
F. recycling H. reselling
G. reducing J. reusing

D 7. Which of these resources is renewable?
A. coal C. oil
B. minerals D. water

H 8. Which is an example of soil conservation?
F. clearing weeds
G. fertilizing
H. contour plowing
J. Xeriscaping

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A 9. Which kind of air pollution ends up in lakes and rivers?
A. acid rain C. sewage
B. diesel fuel D. smog

F 10. A farmer decides to plant corn one year and alfalfa the next year in the same field. What can she expect as a result?
F. The soil will be richer.
G. The field will look like steps.
H. The field will be drought-proof.
J. She will lose less soil to erosion.

A 11. What causes acid rain?
A. air pollution
B. drought
C. sewage
D. water pollution

J 12. The diagram shows an example of land pollution. What other kind of pollution could this situation lead to?
F. acid rain
G. air pollution
H. smog
J. water pollution



D 13. George and Joanne live in the desert. They have a yard with pretty stones, some cacti, and native trees. What kind of water-conservation method is this?
A. intercropping C. windbreak
B. terracing D. Xeriscaping

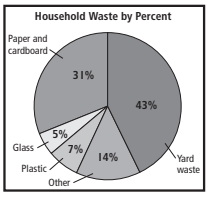
J 14. "Fossil water" is groundwater that has collected in deep rock layers for many thousands of years. Which is the best description of fossil water?
F. renewable, like other water resources
G. polluted, because it comes out of the land
H. recycled, because it is part of the water cycle
J. nonrenewable, because it cannot be replaced within a human lifetime

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B 15. Leanne's family used to buy single-serving yogurt cups that they threw away. Now they buy yogurt in big containers and serve it in bowls that they wash. What has Leanne's family done to conserve resources?
A. recycled C. replaced
B. reduced D. reused

J 16. A family pays for each bag of trash they throw away. The graph shows the percentage of each type of trash that they throw away each year. Which should they start recycling first, to save the most on their trash bill?
F. glass
G. paper and cardboard
H. plastic
J. yard waste



Inquiry Skills 8 points each

17. Metals, such as aluminum, iron, nickel, and copper, are all nonrenewable resources. **Draw a conclusion** about why it is important for metals to be reused and recycled.

Possible answer: *Nonrenewable* means that once the resource is used up, it's gone. Metals are very important for making many things. If we do not reuse and recycle metals, then we will not have any metals left to use.

18. Members of a community garden want to make their soil richer. They want to find out how well crop rotation works compared with chemical fertilizer. Describe an **investigation** that they could do to answer this question. Include a description of how to **control variables** that might affect the results.

Possible answer: The gardeners could set aside two plots and try crop rotation on one and chemical fertilizer on the other. To control variables, they would have to make sure that both test plots get the same amount of sunlight and water and that both are weeded and tended in the same way.

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Critical Thinking 10 points each

19. A factory uses water to cool its machines. Then it puts clean hot water into a nearby river. The temperature of the river rises. The warmer water has less oxygen than the cooler water did. Fish in the river start dying from lack of oxygen. Is the clean hot water from the factory an example of pollution? Explain your answer.

Possible answer: Yes, because pollution means any change in an environment that can harm living organisms. The fish are being harmed, so even though the hot water is clean, it is polluting the river just by being hot.

20. The neighborhood in the picture is experiencing a drought. The local government has made new rules to limit how much water each household can use each week.



Part A How are the people in this neighborhood wasting water?

Possible answer: The person washing the car is letting the water run when it isn't being used. There is a dripping faucet on a house. (Some students may also list the lawn sprinkler as being wasteful during a drought.)

Part B Describe some things the people in this neighborhood could do to conserve water.

Possible answer: The person with the leaky faucet could fix it. The lawns could be replaced with a Xeriscape. People could wash cars less often and shut off the hose when it's not in use.

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