

Name: _____

Date: _____

FOURTH GRADE-SCIENCE (SCIENCE4_4)

1. Coastlines are polluted MAINLY through

- A. wave action at the coasts.
- B. overpopulation at the coasts.
- C. beach erosion at the coasts.
- D. excessive rainfall at the coasts.

2. Crickets eat grass, and birds eat crickets. Which shows the food chain?

- A. grass → crickets → birds
- B. crickets → grass → birds
- C. grass → birds → crickets
- D. crickets → birds → grass

3. People are developing electric cars that would replace gasoline-burning cars. One major advantage of the electric car is that it

- A. accelerates faster.
- B. causes less pollution.
- C. gives a smoother ride.
- D. needs no battery.

4.

Use the food chain below to answer this question.

grass → sheep → wolf → decomposer

What would be the first thing to happen in this food chain if there was a drought and the grass died?

- A. The wolf population would increase.
- B. The sheep population would increase.
- C. The sheep population would decrease.
- D. The decomposer population would decrease.

5. Which of the following CANNOT be recycled after it is used?

- A. newspaper
- B. gasoline
- C. glass bottle
- D. aluminum can

6. People can help to conserve trees by using less

- A. water.
- B. paper.
- C. plastic.
- D. air.

7. The role of the producer in any community is to

- A. produce space.
- B. produce nutrients.
- C. produce carbon dioxide.
- D. produce food.

8. Which of the following might cause a river to become polluted?

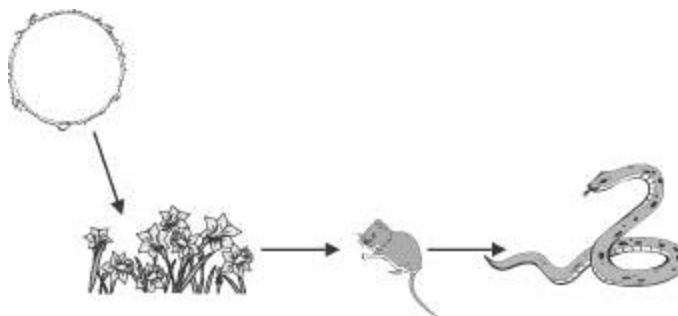
- A. allowing beavers to build a dam
- B. spreading fertilizer near the river
- C. mowing the grass on the riverbank
- D. fishing from a bridge over the river

9. Which is a correct food chain?

- A. tree → moose → horse → dog
- B. leaf → grasshopper → frog → snake
- C. seed → pollen → plant → flower
- D. vine → berry → honey → bear

10.

Use the food chain diagram below to answer this question.



This food chain shows how

- A. energy moves through the food chain.
- B. a consumer moves through the food chain.
- C. consumers provide nutrients to producers.
- D. energy changes from one form to another.

11. Harmful wastes dumped into rivers and streams pollute the water. Which BEST describes where this pollution ends up?

- A. air
- B. oceans
- C. groundwater
- D. soil

12. The percent of children suffering from asthma and other lung diseases in large industrial cities is usually greater than in rural areas. What is one possible reason for this?

- A. water pollution
- B. too much walking
- C. too little green space
- D. air pollution

13. Air pollution can be caused by

- A. cigarettes.
- B. lightbulbs.
- C. birds.
- D. rocks.

14. Which is usually recycled?

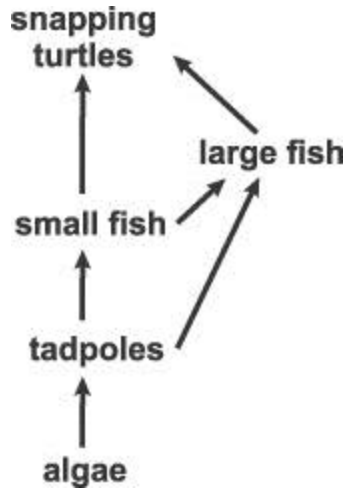
- A. plastic furniture
- B. firewood
- C. aluminum cans
- D. food scraps

15. Richard has to decide on which side of the barn he will plant his tomatoes. Answering which question will help him the MOST?

- A. What insects eat tomatoes?
- B. How much sunlight do tomato plants need?
- C. How much rainfall is expected?
- D. How much space is needed between rows of tomatoes?

16.

Use the diagram below of the food web in a pond community to answer this question.



If the number of small fish decreases, what **MOST LIKELY** will happen to the number of snapping turtles?

- A. It will increase.
- B. It will decrease.
- C. It will stay the same.
- D. Snapping turtles will no longer exist.

17. Which raw material is renewable?

- A. wood
- B. gasoline
- C. metal
- D. coal

18. A producer is a living thing that makes its own food from sunlight. Which of the following is a producer?

- A. human
- B. bee
- C. cow
- D. corn plant

19. Which list contains all biodegradable materials?

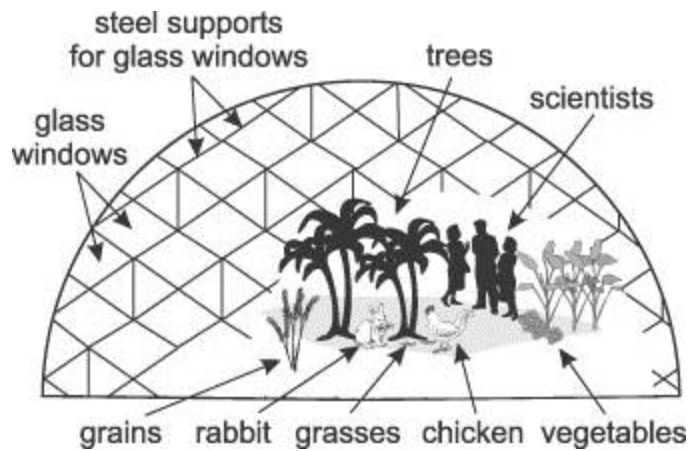
- A. plastic bags, aluminum cans, auto tires
- B. ceramic tiles, costume jewelry, rubber boots
- C. orange peelings, stale bread, newspapers
- D. glass bottles, soup cans, milk cartons

20.

Use the information and picture below to answer this question.

Scientists lived in a large glass building called a biosphere for two years. The

scientists grew some of their own food. They mixed earthworms with their garbage to help break it down. Then they used their garbage to fertilize the plants.



Which of these is a possible food chain in the biosphere?

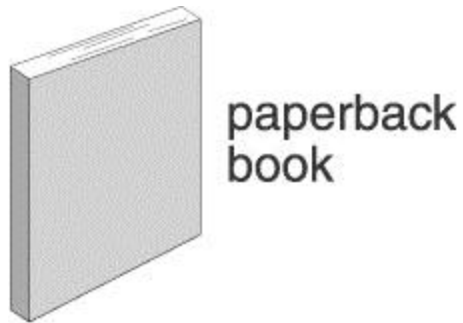
- A. rabbit → grass → scientist
- B. grain → chicken → scientist
- C. grass → scientist → rabbit
- D. earthworm → scientist → vegetables

21. If the food supply for mice in a field decreases, the mouse population in that field will probably

- A. increase.
- B. decrease.
- C. remain the same.
- D. become extinct.

22.

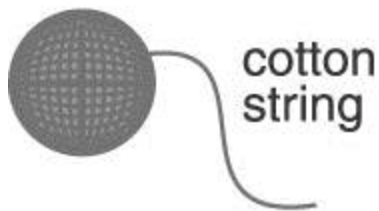
Use the pictures below to answer this question.



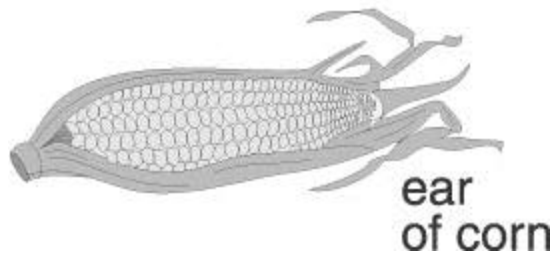
paperback
book



plastic
comb



cotton
string



ear
of corn

Kristin buried each of the objects shown above in her backyard. One month later, she dug up the objects. Which object probably changed the LEAST?

- A. paperback book
- B. plastic comb
- C. cotton string
- D. ear of corn

23. Dylan has decided he wants to help reduce air pollution. Which would be the BEST way for him to do this?

- A. Use paper bags.
- B. Use less liquid cleaner.

- C. Use wood for heat.
- D. Use less electricity.

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24. Which is a way to help control environmental pollution?
- A. travel by car instead of by bicycle
 - B. use pesticides to keep bugs away from plants
 - C. burn waste materials at dump sites
 - D. reuse cans, bottles, and newspapers whenever possible

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25. Which of the following helps the leaves break down after they have fallen off a tree?
- A. meat eaters
 - B. rocks
 - C. decomposers
 - D. cold temperatures

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(Answer Key)

- 1. overpopulation at the coasts.
- 2. grass → crickets → birds
- 3. causes less pollution.
- 4. The sheep population would decrease.
- 5. gasoline
- 6. paper.
- 7. produce food.
- 8. spreading fertilizer near the river
- 9. leaf → grasshopper → frog → snake
- 10. energy moves through the food chain.
- 11. oceans
- 12. air pollution
- 13. cigarettes.
- 14. aluminum cans
- 15. How much sunlight do tomato plants need?
- 16. It will decrease.
- 17. wood

18. corn plant
19. orange peelings, stale bread, newspapers
20. grain → chicken → scientist
21. decrease.
22. plastic comb
23. Use less electricity.
24. reuse cans, bottles, and newspapers whenever possible
25. decomposers