

Georgia
CRCT
online



4th Grade Science Test

Fourth Grade Science
Test

Practice Test

Name: _____

Date: _____

Instructions:

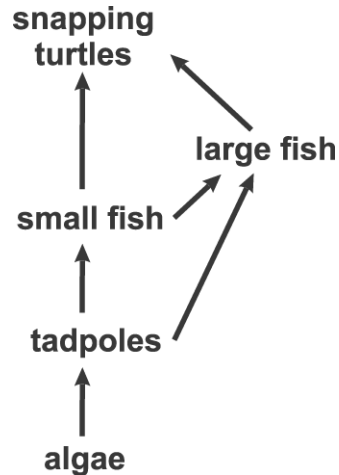
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Use the diagram below of the food web in a pond community to answer question 1.



1. 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.

 2. Which of the following can be used to make an electromagnet?
 - A. a compass, a magnet, and a piece of string
 - B. aluminum foil, an iron nail, and a lightbulb
 - C. a copper wire, a battery, and an iron nail
 - D. a lightbulb, a dry cell, and aluminum wire
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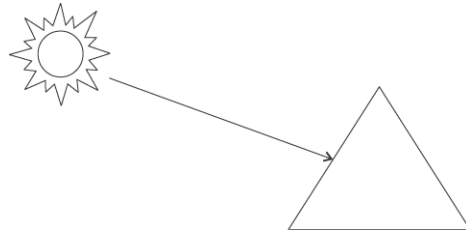
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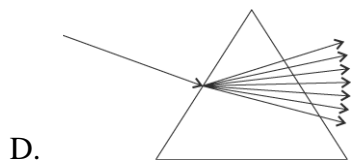
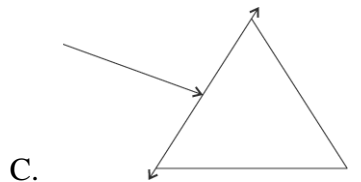
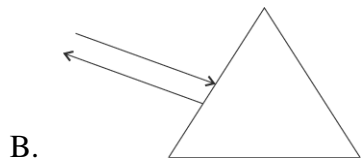
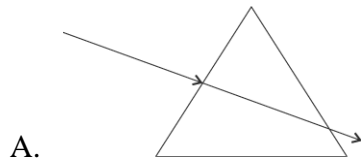
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Use the picture below to answer question 3.



3. Which picture shows what happens when light hits a prism?



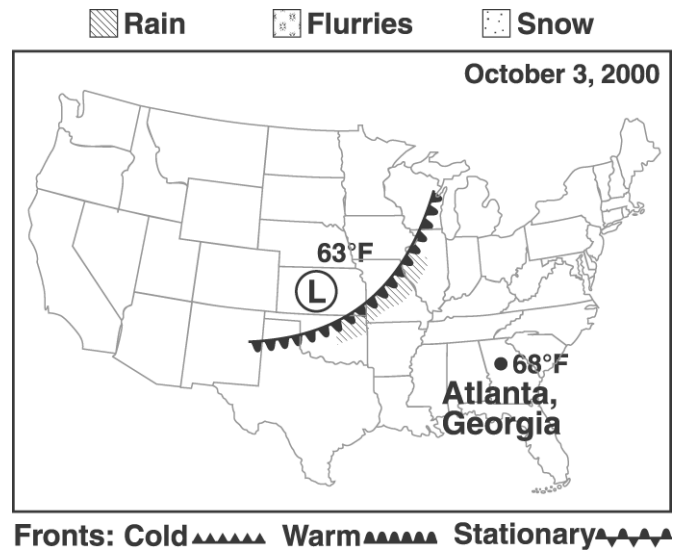
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Use the map below to answer question 4.



4. Carl and his parents are planning to be in Atlanta on October 5. What special things should they pack?

- A. heavy wool sweaters
- B. raincoats and umbrellas
- C. lightweight shorts and tee shirts
- D. skis and snowsuits

5. Cory went outside at 9:00 A.M. on a sunny morning and looked at his shadow. He went back out at 10:00 A.M., 11:00 A.M., and 12:00 noon.

Which is probably true about the length of Cory's shadow?

- A. It did not change.
 - B. It was longer each time he looked.
 - C. It was shorter each time he looked.
 - D. It was shorter at 9:00 a.m. than it was at noon.
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6. You should never touch an electrical appliance if you are

- A. wet.
 - B. tired.
 - C. cold.
 - D. sick.
-

7. Which situations could be MOST dangerous?

- A. leaving an electric lamp turned on for longer than five hours
 - B. touching an electric cord where the covering is torn
 - C. carrying flashlight batteries in your pocket
 - D. turning a light switch on before plugging the light in
-

8. Which needs to be added continuously to a balanced ecosystem?

- A. bacteria
 - B. energy
 - C. matter
 - D. nutrients
-

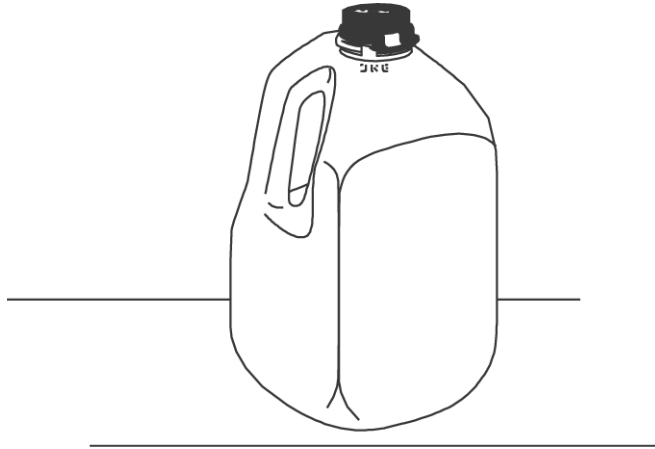
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Use the picture below to answer question 9.



9. A plastic container of water is placed in full sunlight. What color should the container be to make the water as warm as possible?

- A. white
- B. yellow
- C. red
- D. black

10. In a rain forest community, the energy that fuels the entire ecosystem comes from

- A. the rain.
 - B. the trees.
 - C. the insects.
 - D. the Sun.
-

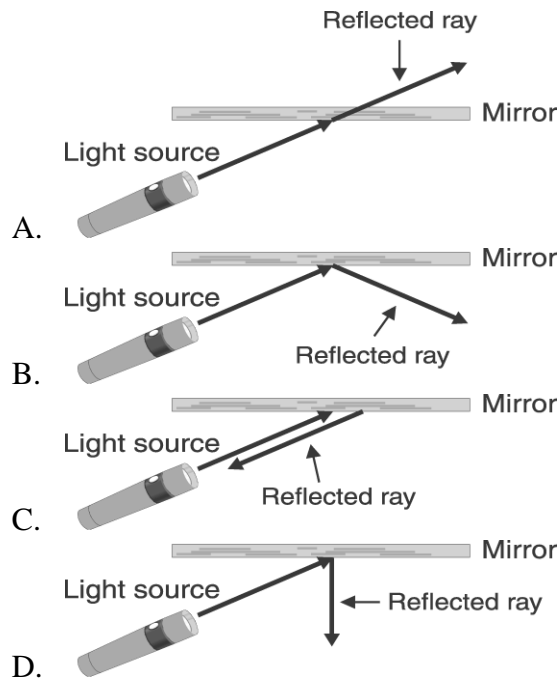
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11. Which picture shows the correct reflected light ray?



12. Which is the BEST way for someone to find out about an unfamiliar tree?

- A. Find out what kinds of birds build their nests in it.
 - B. Compare the bark and leaves with pictures in a book about trees.
 - C. See how many trees like it are in the area.
 - D. Find out how well it grows in different kinds of soil.
-

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

- A. newspaper
 - B. gasoline
 - C. glass bottle
 - D. aluminum can
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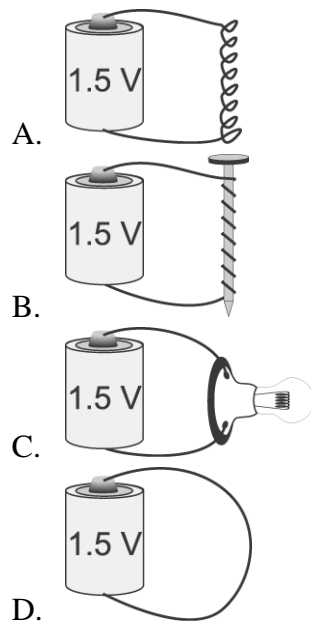
14. The primary energy source in all living communities is

- A. the Sun.
 - B. the animals.
 - C. the plants.
 - D. the soil.
-

15. Which would make the softest sound?

- A. balloon popping
 - B. hammer hitting a nail
 - C. eraser hitting a chalkboard
 - D. metal rod hitting a musical triangle
-

16. Which device makes an electromagnet?



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17. At which time of day would a person's shadow cast by the Sun be the shortest?

- A. early morning
 - B. noon
 - C. mid-afternoon
 - D. night
-

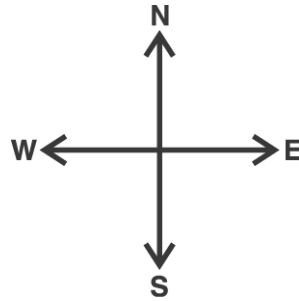
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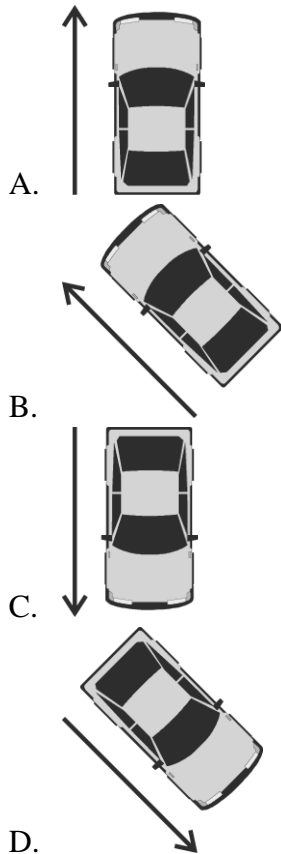
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Use the picture below to answer question 18.



18. Which picture shows a car that is traveling northwest?



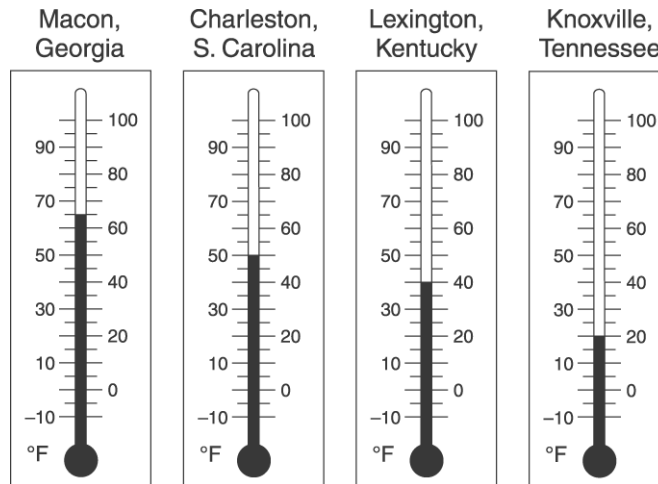
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Use the thermometers below to answer question 19.



19. The thermometers above show temperatures reported by the National Weather Service in four different cities where there is precipitation. In which city is it probably snowing?

- A. Macon, Georgia
- B. Charleston, South Carolina
- C. Lexington, Kentucky
- D. Knoxville, Tennessee

20. When light hits a dark object, most of the light is

- A. absorbed.
 - B. reflected.
 - C. diffused.
 - D. refracted.
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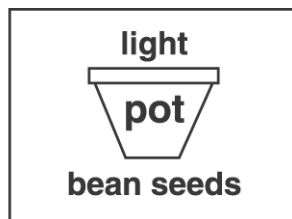
21. An electromagnet has just enough strength to pick up five paper clips. Which would most likely happen if ten more loops of wire were wrapped around the nail?

- A. Exactly two clips would fall off the nail.
 - B. All of the clips would fall off the nail.
 - C. The electromagnet would be able to pick up more clips.
 - D. The strength of the electromagnet would stay the same.
-

22. When the mouse's food supply in a field decreases, the mouse population in that field will probably

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

23. Tom wanted to find out whether plants can grow better in the dark or in the light. He put a pot with six radish seeds in a dark room and a pot with six bean seeds on the windowsill.



He added the same amount of water to both pots. The bean seeds grew better than the radish seeds, so Tom said his plants grew best in the light. To be able to say this he should have

- A. used more seeds in each pot.
 - B. watered the radish seeds more.
 - C. put the same kind of seeds in both pots.
 - D. grown the radish seeds in light instead of dark.
-

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24. Earth is different from all the other planets in our solar system because it has large amounts of

- A. sunlight and rock.
 - B. oxygen and water.
 - C. nitrogen and ammonia.
 - D. lava and volcanic dust.
-

25. When several lightbulbs are connected in a series circuit, what will happen if one bulb burns out?

- A. All of the lightbulbs will go out.
 - B. The other bulbs will continue to burn.
 - C. The other bulbs will burn brighter.
 - D. There will be a short circuit.
-

26. Why does the Northern Hemisphere experience summer in June, July, and August?

- A. The Northern Hemisphere is closest to the Sun during these months.
 - B. Earth is orbiting the Sun faster during these months.
 - C. The Northern Hemisphere is tilted toward the Sun during these months.
 - D. The North Pole is pointed directly toward the Sun during these months.
-

27. If a NEW moon occurs on July 2, a FULL moon will occur around

- A. July 9.
 - B. July 16.
 - C. July 30.
 - D. August 30.
-

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28. Which statement BEST describes the relationship between a fox and a mouse?

- A. The fox is the consumer, and the mouse is the producer.
 - B. The fox is the predator, and the mouse is the decomposer.
 - C. The fox is the prey, and the mouse is the consumer.
 - D. The fox is the predator, and the mouse is the prey.
-

29. Which tool is used to measure the volume of liquids in milliliters?

- A. test tube
 - B. graduated cylinder
 - C. balance scale
 - D. eye dropper
-

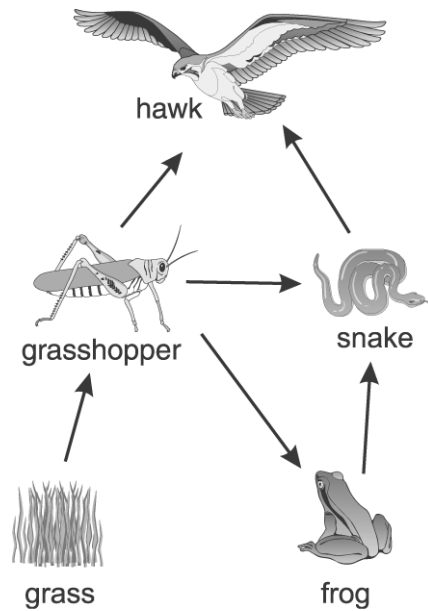
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Use the diagram of a food web below to answer question 30.



30. Grasshoppers are eating a farmer's crop. According to the food web, which might happen if the field was sprayed to kill the grasshoppers?

- A. There would be more food for frogs.
 - B. There would be more snakes.
 - C. There would be fewer crops.
 - D. There would be less food for hawks.
-