

Georgia  
**CRCT**  
online



## 4th Grade Science Practice Test

Fourth Grade Science  
Test

Suzy Skelton

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### **Instructions:**

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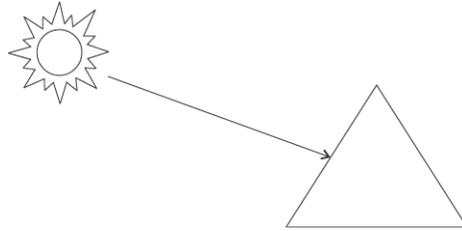
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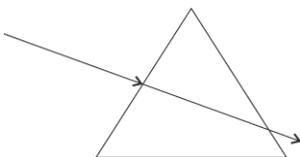
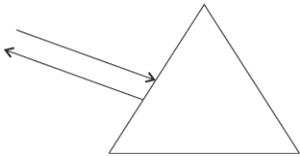
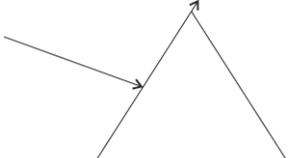
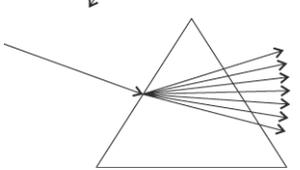
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Use the picture below to answer question 1.



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

- A. 
  - B. 
  - C. 
  - D. 
-

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2. Joseph and Teri wanted to find the effect of water on seed growth. They planted six sunflower seeds and gave them a lot of water. Then they planted six bean seeds and only gave them a little water. To make their investigation BETTER they should have

- A. used only one kind of seed.
  - B. watered them every day.
  - C. used different soil in each set of pots.
  - D. put the seeds in brighter light.
- 

3. Which can cause air pollution?

- A. car
  - B. tree
  - C. dog
  - D. rock
- 

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

- A. absorbed.
  - B. reflected.
  - C. diffused.
  - D. refracted.
- 

5. Which experiment is the BEST way to see if a new cold medicine works?

- A. Wait until you have a cold. Take the medicine and see if it works.
  - B. Give the medicine to several people and see if it keeps them from getting colds.
  - C. Find a group of people who have colds. Give only half of them the medicine and see which group gets better faster.
  - D. Give the medicine to a group of people who have colds and see how many of them like it.
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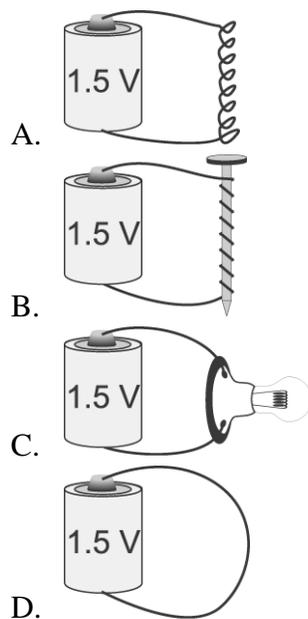
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6. In the water cycle, condensation is the process of

- A. water vapor cooling down and turning into a liquid.
  - B. ice warming up and turning into a liquid.
  - C. liquid cooling down and turning into ice.
  - D. liquid warming up and turning into water vapor.
- 

7. Which device makes an electromagnet?



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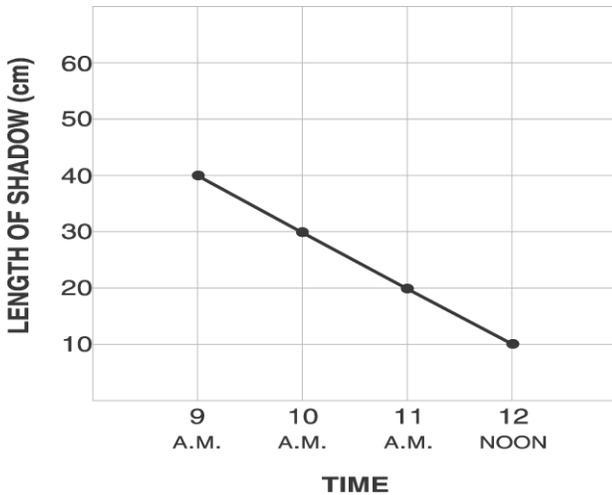
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Use the graph below to answer question 8.



8. A student placed a stick in the ground and measured the length of its shadow four times. The student made this graph of her measurements.

About how long was the shadow of the stick at 11 A.M.?

- A. 10 cm
  - B. 20 cm
  - C. 30 cm
  - D. 40 cm
- 
9. If too many plugs are put into one outlet, they can
- A. cause a fire.
  - B. make noise.
  - C. break the outlet.
  - D. grow bigger.
-

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10. Which planet is MOST like Earth?

- A. Mars
  - B. Neptune
  - C. Pluto
  - D. Uranus
- 

11. Which word describes anything that can harm living organisms when too much of it is released into an ecosystem?

- A. producer
  - B. pollutant
  - C. reaction
  - D. consumer
- 

12. The number of predators in a community depends on what factor?

- A. the number of prey
  - B. the amount of sunlight
  - C. the amount of rainfall
  - D. the number of decomposers
- 

13. If farmers cleared a large forest and planted grass, the squirrels that had lived in the forest would MOST LIKELY

- A. move to other areas that had trees.
  - B. learn to live in the long grass.
  - C. find seeds and nuts to plant more trees.
  - D. build their nests on the ground.
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14. Ms. Rely's class is doing an experiment outside with ice cubes and colored paper. The ice cube will melt fastest on

- A. red paper.
  - B. green paper.
  - C. white paper.
  - D. black paper.
- 

15. 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
- 

16. Some factories release pollutants that form acid rain into the air. What determines where the acid rain is MOST LIKELY to fall?

- A. ocean currents
  - B. wind direction
  - C. air temperature
  - D. relative humidity
-

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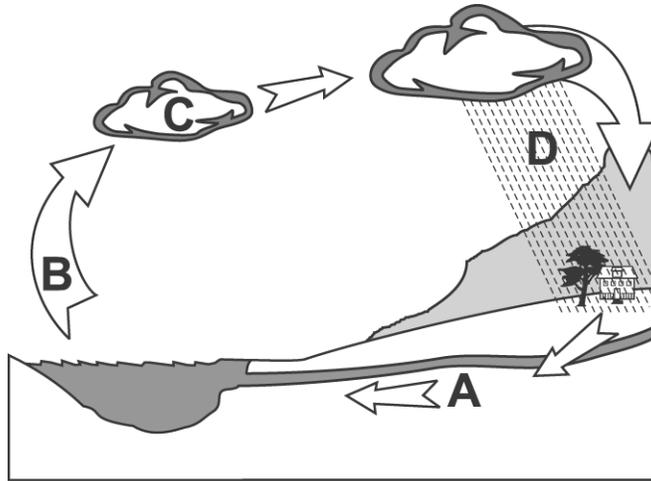
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Use the diagram below to answer question 17.



17. Precipitation occurs at the step marked

- A. A.
- B. B.
- C. C.
- D. D.

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18. 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
-

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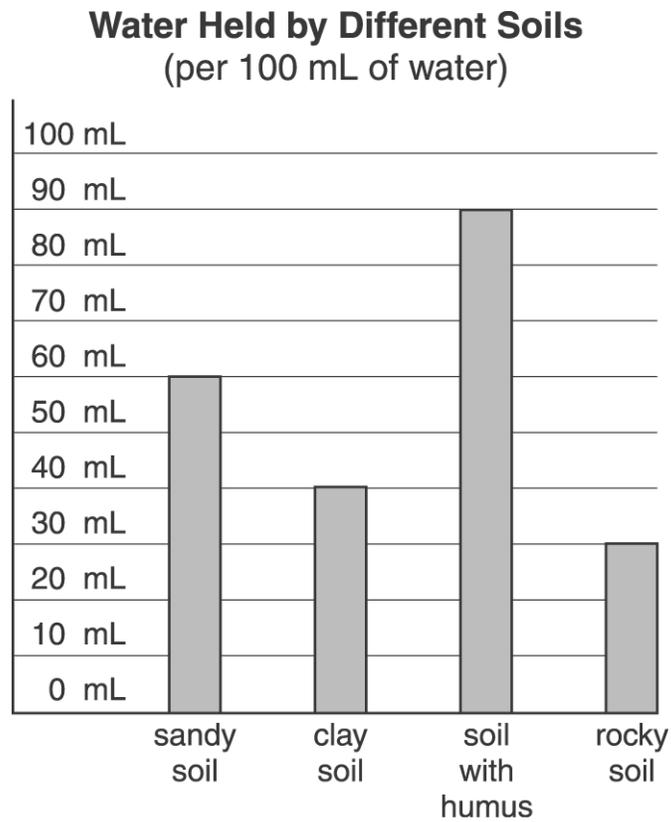
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Use the bar graph below to answer question 19.



19. Amy needs potting soil that will stay moist. Which type of soil will work the best?

- A. sandy soil
  - B. clay soil
  - C. soil with humus
  - D. rocky soil
-

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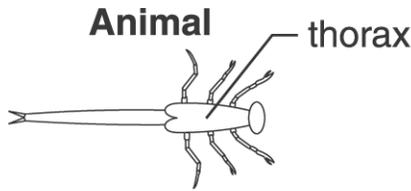
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Use the picture and the information below to answer question 20.



### Animal Key

body is as wide as it is long — **water penny**

OR

body is longer than it is wide

body has no legs — **nematode**

OR

body has legs

animal has legs along length of body — **mayfly nymph**

OR

animal has legs on thorax only

— **water moth larva**

20. Based on the Animal Key, the animal pictured is a

- A. water moth larva.
  - B. nematode.
  - C. mayfly nymph.
  - D. water penny.
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21. A compass can help you find your direction by using

- A. static electricity.
  - B. magnetism.
  - C. chemicals.
  - D. photoelectric cells.
- 

22. Which living thing makes its own food?

- A. insect
  - B. plant
  - C. mushroom
  - D. mammal
- 

23. Which of these is a power source in electric circuits?

- A.  lightbulb
  - B.  battery
  - C.  wire
  - D.  plug
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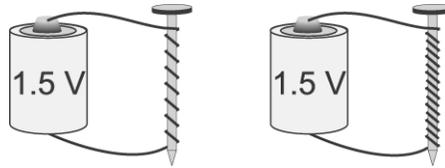
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Use the pictures below to answer question 24.



24. The more times the wire is wrapped around the nail

- A. the faster the battery goes dead.
  - B. the more electricity in the circuit.
  - C. the more magnetism in the nail.
  - D. the hotter the wire will get.
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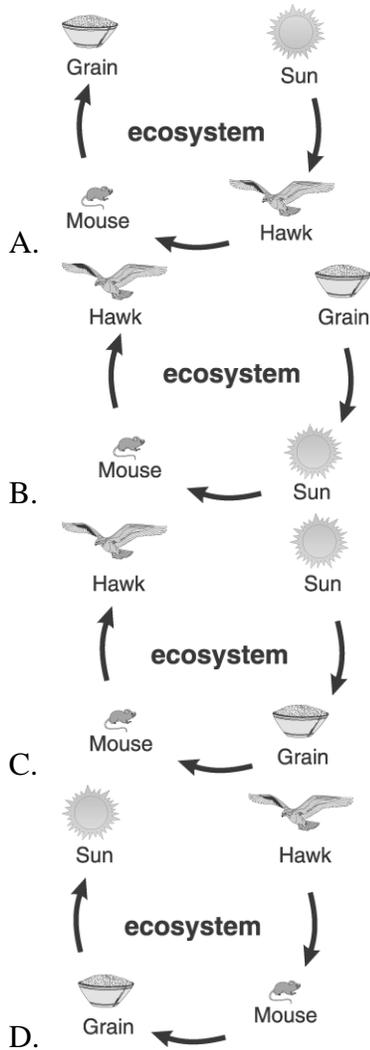
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25. Which diagram shows how energy flows in the ecosystem?



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26. Which material is translucent?

- A. clear glass
  - B. clean air
  - C. concrete
  - D. waxed paper
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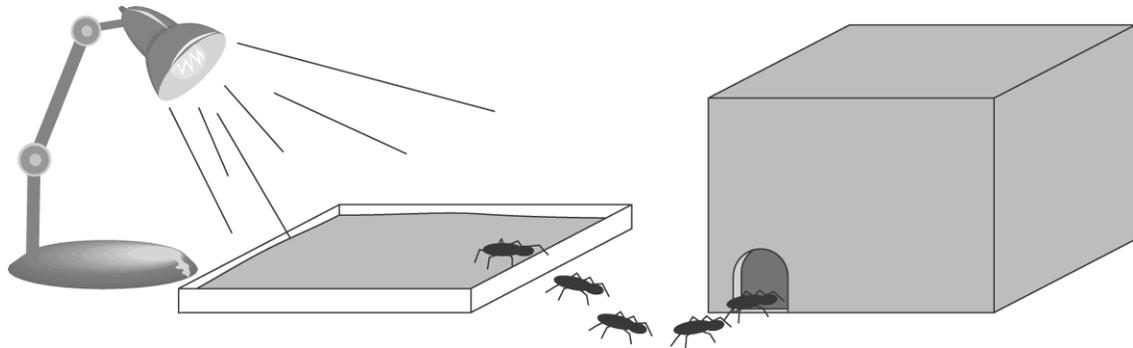
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Use the picture below to answer question 27.



27. Jon did an experiment with small insects called sow bugs. When he put sow bugs on the tray under a light, the bugs crawled into the box. Based on this observation, which of the following is MOST LIKELY true about sow bugs?

- A. Sow bugs prefer dark places.
- B. Sow bugs go toward dry places.
- C. Sow bugs need dirt to live.
- D. Sow bugs are afraid of trays.

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28. Which is the best way to measure the length of three different boxes tied together?

- A. Measure one box and multiply by three.
  - B. Guess at the length of the boxes.
  - C. Measure half of the boxes and double the result.
  - D. Measure all three boxes together.
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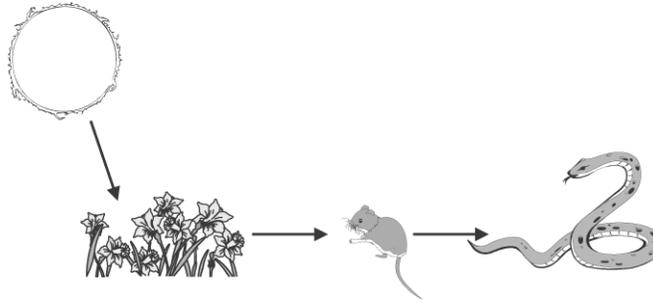
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Use the food chain diagram below to answer question 29.



29. 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.
- 

30. A scientist has developed a material that conducts electricity with less heat loss than copper wiring. Information about this recent discovery would MOST LIKELY be found

- A. in an encyclopedia.
  - B. on a home-repair television show.
  - C. in a science textbook.
  - D. in a science reference magazine.
-