

Georgia  
**CRCT**  
online



## 4th Grade Science Practice Test

Fourth Grade Science  
Test

Suzy Skelton

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

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

### **Instructions:**

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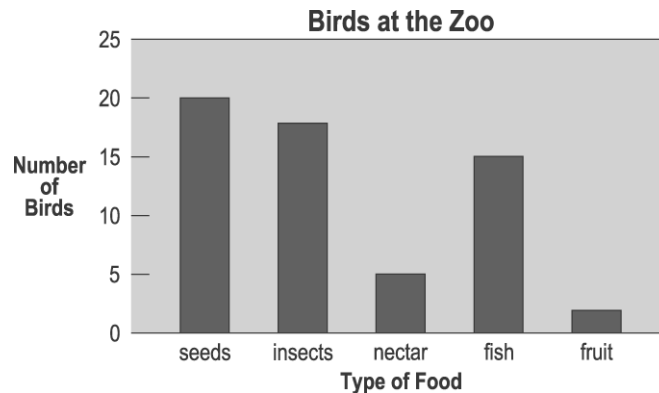
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1. Which planet has gases, land masses, and large amounts of surface water?

- A. Earth
  - B. Mars
  - C. Pluto
  - D. Saturn
- 

Use the graph below to answer question 2.



2. Jane studied birds at the zoo. She kept a record of the different types of food the birds ate. The graph shows the results of Jane's study. Based on the graph, which statement best describes the birds at the zoo?

- A. More birds eat nectar than eat insects.
  - B. More birds eat fish than eat seeds.
  - C. Fewer birds eat nectar than eat fruit.
  - D. Fewer birds eat insects than eat seeds.
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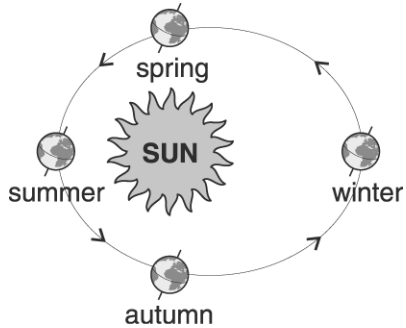
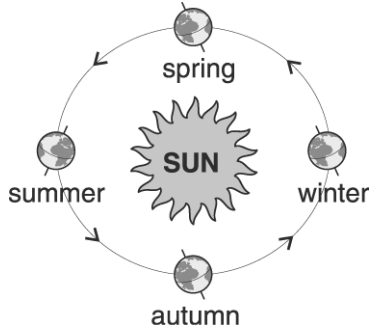
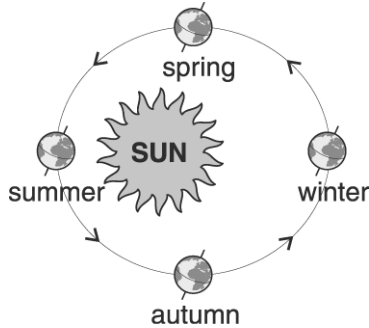
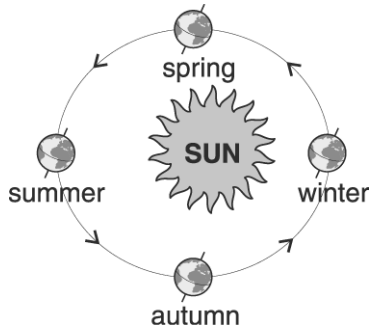
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3. Which diagram of the seasons in the Northern Hemisphere correctly shows the tilt of Earth and the relative positions of Earth and the Sun?



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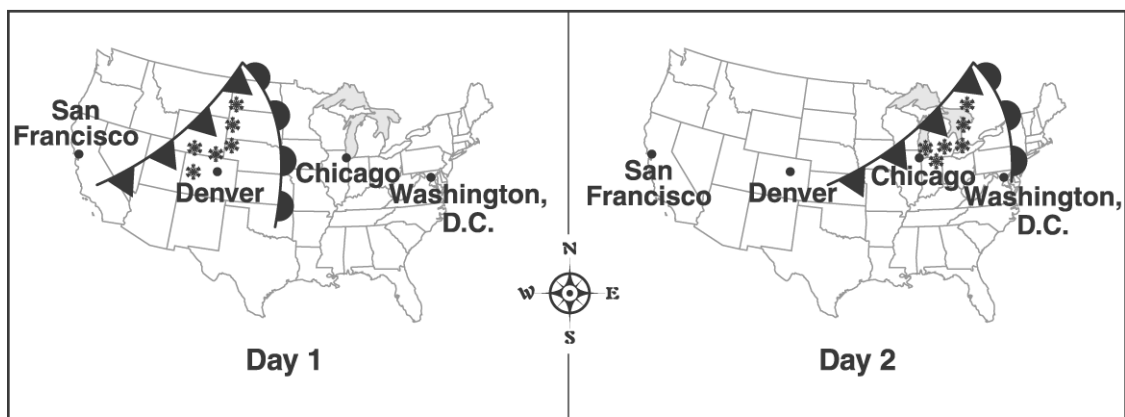
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4. The reason electrical cords are coated with rubber is because the rubber
- A. helps produce more electricity.
  - B. helps conduct electricity.
  - C. reduces the magnetic field.
  - D. acts as an insulator.
- 

Use the map below to answer question 5.

### Winter Weather Maps



Key:	Cold Front		Warm Front		Snow	
------	------------	--	------------	--	------	--

5. The frontal system moved from
- A. west to east.
  - B. north to south.
  - C. east to west.
  - D. south to north.
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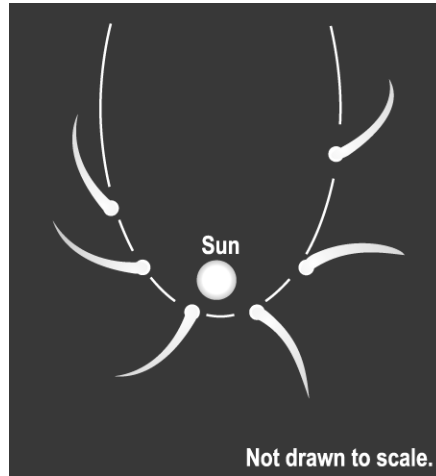
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Use the drawing below to answer question 6.



6. In this drawing, the object orbiting the Sun is

- A. a meteor.
- B. an asteroid.
- C. a comet.
- D. a planet.

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7. Which tool would NOT be useful for measuring the amount of water in a glass?

- A. measuring cup
  - B. metric ruler
  - C. thermometer
  - D. balance scale
-

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8. Which is an example of current electricity?

- A. a balloon sticking to a wall
  - B. a lamp lighting a room
  - C. hair standing up as a comb passes over it
  - D. clothes sticking together after they come out of the dryer
-

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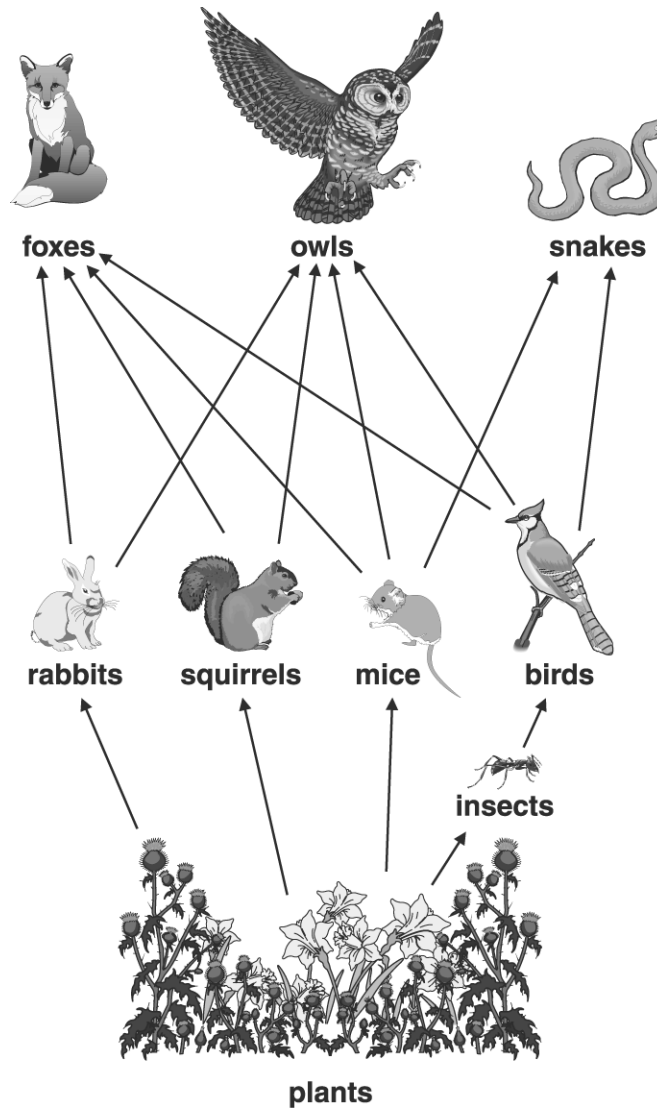
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Use the diagram of a forest food web below to answer question 9.



9. According to the food web, which animals eat both plants and animals?

- A. snakes
  - B. mice
  - C. birds
  - D. foxes
-

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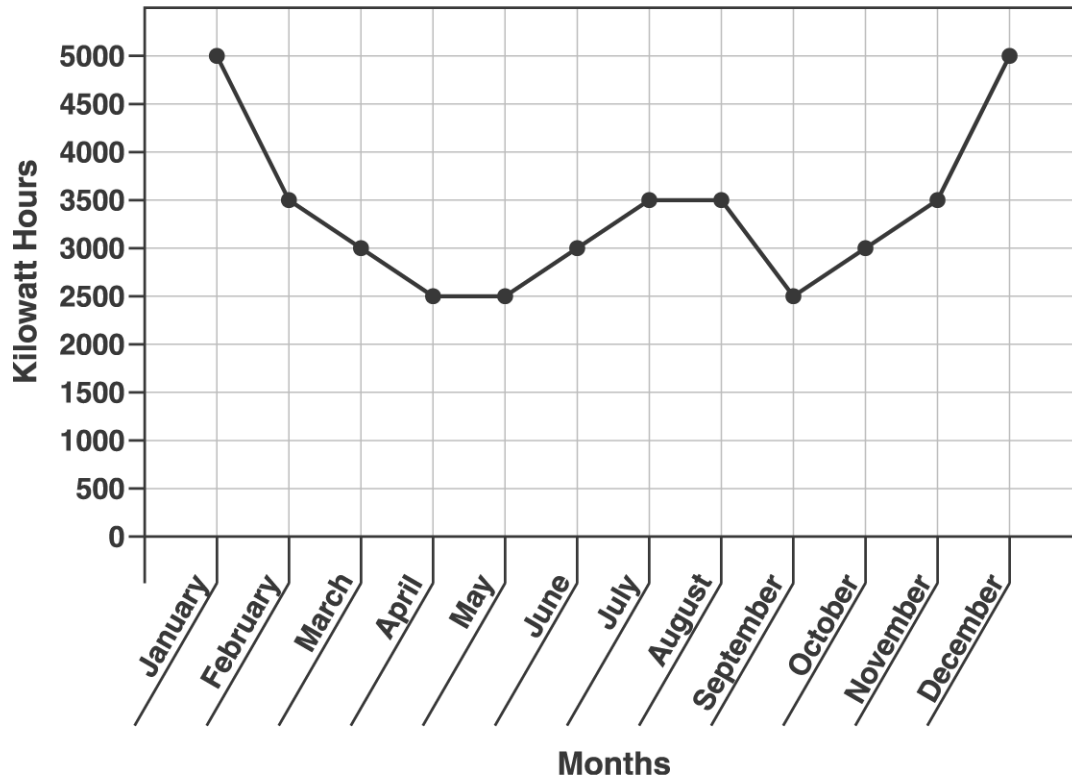
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Use the graph below to answer question 10.

**The Martin Family Electricity Use by Month**



10. During which two months did the Martin family use the MOST electricity?

- A. August and September
  - B. May and June
  - C. January and December
  - D. November and December
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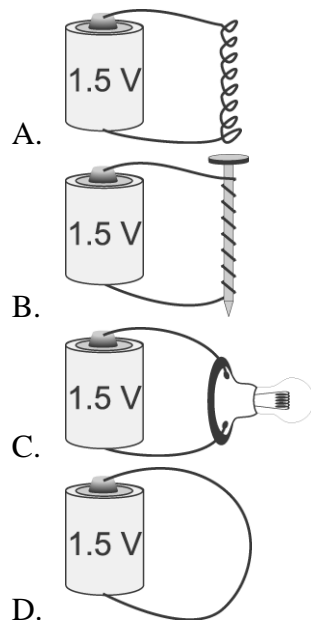
11. Keenan brought his electricity project to school. He forgot to bring a sample conductor and a sample insulator. Which materials in his classroom could he substitute for the conductor and insulator?

- A. a safety pin and a chalkboard eraser
  - B. scissors and a key
  - C. a pretzel and a color pencil
  - D. a plastic spoon and an index card
- 

12. What is the purpose of the plastic coating usually found on electric wires?

- A. to strengthen the wires
  - B. to prevent electric shocks
  - C. to make better connections
  - D. to keep the wires from getting hot
- 

13. Which device makes an electromagnet?



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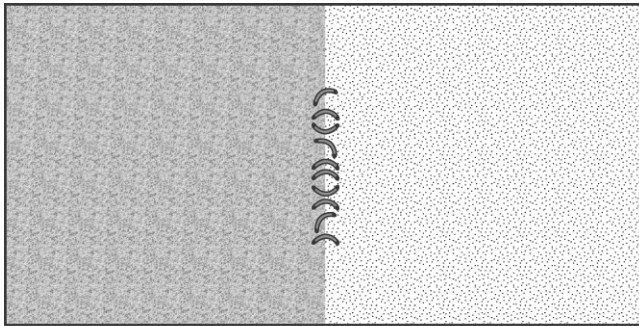
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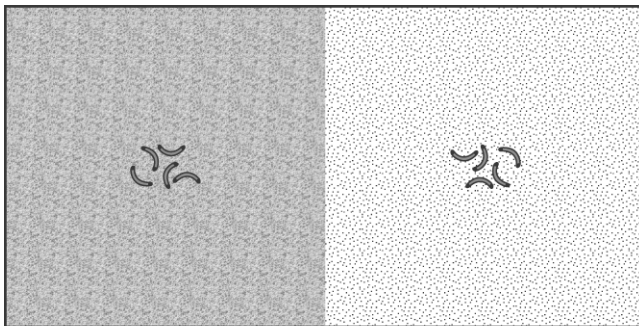
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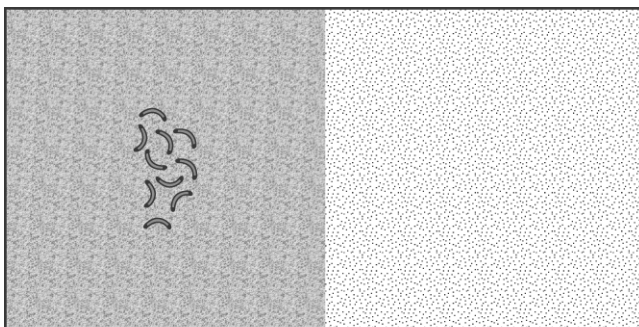
14. Sarah wondered if mealworms preferred to live in oatmeal or sand. She set up a box to investigate her question. On one side of the box she put oatmeal. On the other side of the box she put sand. She then placed mealworms in the box. Which picture shows the best place for Sarah to put the mealworms in order to test her ideas?



A. oatmeal sand



B. oatmeal sand



C. oatmeal sand

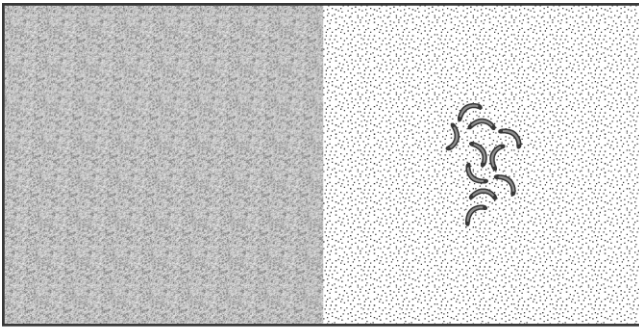
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D.

oatmeal

sand

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15. Frank's science class keeps several different animals in the classroom. The students decided to do a group experiment to compare the amount of food each type of animal eats in a week. Their data are shown in the table below.

<b>Animal</b>	<b>Amount of Food Eaten in One Week</b>
Chuckie (hamster)	5 g
Henry (guinea pig)	20 g
Phyllis (gerbil)	4 g
Dorothea (goldfish)	6 g
Mabel (hamster)	6 g
Freddie (hamster)	7 g
Mark (gerbil)	5 g
Wilma (goldfish)	4 g
Andy (guinea pig)	18 g

Which table BEST summarizes the total amount of food eaten by each type of animal?

A.

<b>Type of Animal</b>	<b>Total Amount of Food Eaten</b>
Hamster	5 g
Gerbil	4 g
Guinea Pig	20 g
Goldfish	6 g

B.

<b>Type of Animal</b>	<b>Total Amount of Food Eaten</b>
Hamster	14 g
Gerbil	17 g
Guinea Pig	35 g
Goldfish	10 g

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Type of Animal	Total Amount of Food Eaten
Hamster	18 g
Gerbil	9 g
Guinea Pig	38 g
Goldfish	10 g

C.

Type of Animal	Total Amount of Food Eaten
Hamster	16 g
Gerbil	17 g
Guinea Pig	40 g
Goldfish	5 g

D.

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16. 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
- 

17. Sound does not move through

- A. air.
  - B. outer space.
  - C. rocks.
  - D. water.
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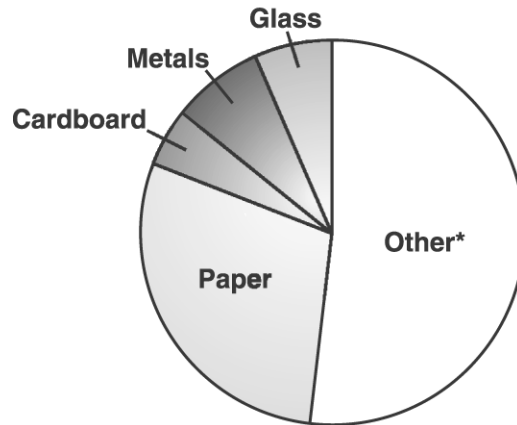
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Use the pie graph below to answer question 18

**Composition (by weight) of Average Sanitary Landfill**



\* Includes yard waste, wood, demolition debris, plastics, and miscellaneous wastes.

18. Based on the graph, slightly more than one-fourth of the trash in a landfill is

- A. paper.
- B. cardboard.
- C. metals and glass.
- D. other wastes.

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19. When Vanessa put a piece of wood in water, it sank. Which of the following can she conclude?

- A. All pieces of wood sink in water.
  - B. All pieces of wood float in water.
  - C. Some pieces of wood sink in water.
  - D. Some pieces of wood float in water.
-

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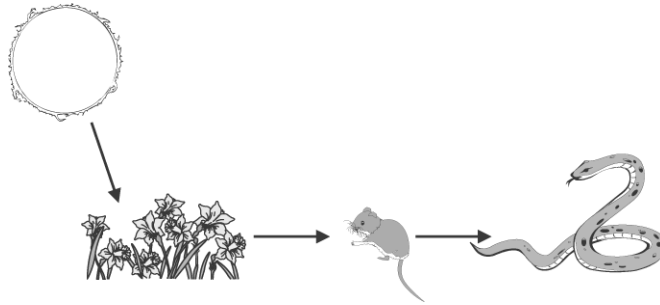
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Use the food chain diagram below to answer question 20.



20. 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.
- 

21. Through which of these substances does sound travel SLOWEST?

- A. water
  - B. air
  - C. wood
  - D. aluminum
- 

22. 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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23. Which type of cloud produces heavy rain, hail, and deadly winds?

- A. nimbostratus
  - B. cirrocumulus
  - C. cumulonimbus
  - D. altostratus
- 

24. The day during the year when the Northern Hemisphere receives the greatest amount of sunlight is called the

- A. fall equinox.
  - B. spring equinox.
  - C. winter solstice.
  - D. summer solstice.
- 

25. Which action adds carbon dioxide to the atmosphere?

- A. reducing amounts of air pollution
  - B. using solar and wind energy
  - C. burning only fossil fuels to get energy
  - D. traveling in electric cars
- 

26. Which causes a shadow to disappear?

- A. the Sun moving directly overhead
  - B. the Sun coming out from behind a cloud
  - C. the wind blowing
  - D. the Sun getting hotter
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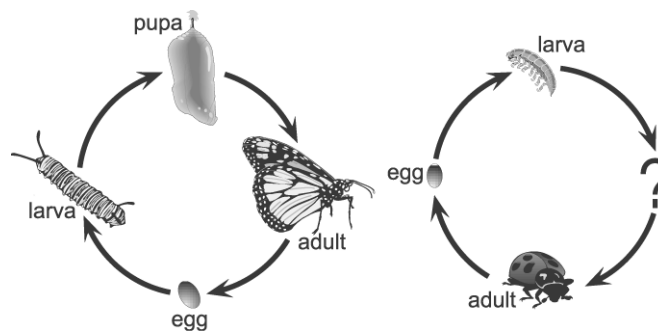
27. The reason there is day and night on Earth is that

- A. the Sun turns on its axis.
  - B. the Moon turns on its axis.
  - C. Earth turns on its axis.
  - D. the Sun gets dark at night on its axis.
- 

28. Which step comes first when conducting an experiment?

- A. gathering data
  - B. drawing a conclusion
  - C. making observations
  - D. interpreting data
- 

Use the diagrams below to answer question 29.



29. The life cycles of a butterfly and a ladybug are similar. The diagrams show the life cycle of each. Which stage of the ladybug's life cycle is missing?

- A. egg
  - B. larva
  - C. pupa
  - D. adult
-

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30. 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.
-