

Georgia  
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## **5th Grade Science Practice Test**

Fifth Grade Science  
Test

Suzy Skelton

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

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

**Instructions:**

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1. What are the building blocks of all matter?

- A. potential and kinetic energy
  - B. heat and electricity
  - C. atoms and molecules
  - D. crystals and compounds
- 

2. Which gives shape and support to the human body?

- A. brain
  - B. heart
  - C. skeleton
  - D. stomach
- 

3. Which food group provides the best source of carbohydrates?

- A. meat and poultry
  - B. fruits and vegetables
  - C. breads and cereal grains
  - D. dairy products
-

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Use the menus below to answer question 4.

**MENU 1**

Fried chicken  
Cola soda  
Potato chips  
Vanilla ice cream

**MENU 2**

Peanut butter sandwich  
Apple juice  
Pretzel sticks  
Fruit salad

**MENU 3**

Egg salad sandwich  
Apple juice  
Carrot sticks  
Strawberry yogurt

**MENU 4**

Turkey sandwich  
Milk  
Grapes  
Vanilla pudding

4. Which of the four menus is the least healthy?

- A. Menu 1
- B. Menu 2
- C. Menu 3
- D. Menu 4

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5. Stone Mountain in Georgia is a granite dome that formed deep underground. Over time, uplift and erosion exposed the granite. What natural activity is MOST responsible for breaking down the mountain today?

- A. faulting
- B. weathering
- C. stream erosion
- D. lightning

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6. The organ that holds solid waste materials before they are passed from the body is the

- A. pancreas.
  - B. liver.
  - C. stomach.
  - D. large intestine.
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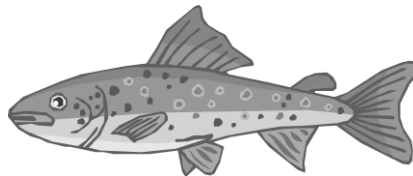
7. Michael discovers that a fish breathes less often in cool water. He correctly hypothesizes that

- A. the fish slows down in cool water, and does not need as much oxygen.
  - B. the fish is eating, and does not have time to breathe as much.
  - C. the fish is sleeping, and does not need as much oxygen.
  - D. there is less oxygen in cool water, so the fish breathes slowly.
- 

8. Which are NOT found in both birds and insects?

- A. eggs
  - B. feathers
  - C. legs
  - D. wings
- 

*Use the picture below to answer question 9.*



9. A fish is dark on the top and light on the bottom because

- A. the colors help the fish swim better.
  - B. the sun makes the top part of the fish turn dark.
  - C. the colors make the fish harder for a predator to see.
  - D. the colors keep the fish from turning upside down.
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10. All of the following except one are made up of atoms. Which one is NOT made up of atoms?

- A. energy
  - B. people
  - C. gasoline
  - D. sodium chloride
- 

11. Which is the BEST example of an adaptation used to cause confusion when a group of animals tries to run away from a predator?

- A. stripes on a zebra
  - B. smell from a skunk
  - C. long neck of a giraffe
  - D. long ears of a rabbit
- 

12. Which is an example of a physical change?

- A. burning leaves
  - B. baking bread
  - C. rusting pipes
  - D. tearing paper
- 

13. A lizard's tail breaks very easily. How does this help to protect the lizard?

- A. The lizard can leave pieces of its tail to mark its territory.
  - B. During a food shortage, the lizard can break off its tail and eat it.
  - C. The lizard can leave broken pieces of tail to fool predators or to attract a mate.
  - D. If a predator catches the lizard by the tail, the tail breaks off and the lizard gets away.
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14. Which is washed away MOST EASILY by erosion?

- A. topsoil
  - B. subsoil
  - C. bedrock
  - D. magma
- 

15. Mr. Greenway gave his students a test tube, a cork stopper, a tablet that fizzes in water, and some water. He told them to put the tablet in the test tube, add water, and then immediately put the stopper on the test tube. What should each class member do before starting this activity?

- A. get fire extinguishers and a fire blanket
  - B. carefully wash their hands
  - C. place earplugs in their ears
  - D. put on their laboratory goggles
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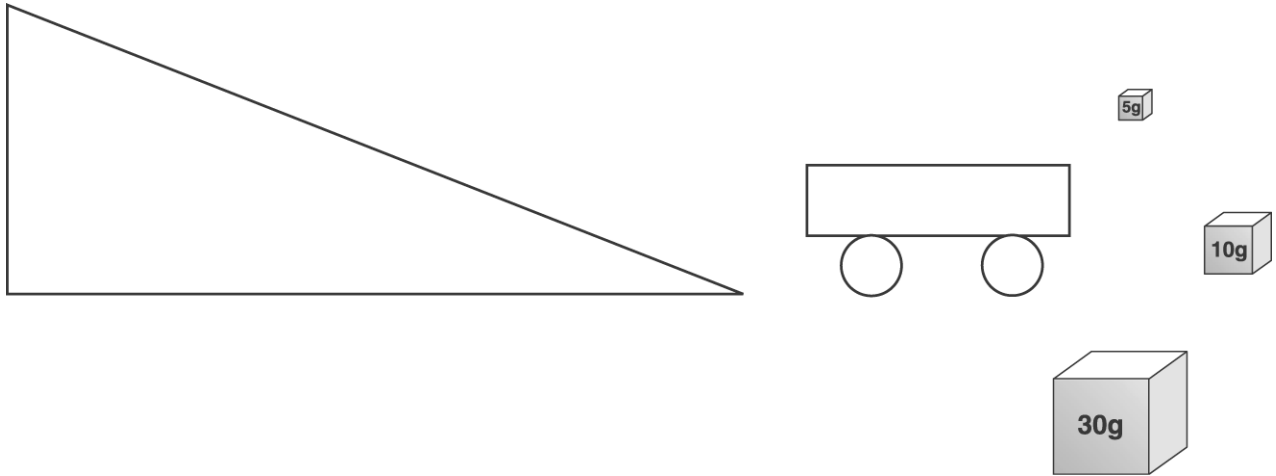
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Use the diagram below to answer question 16.



16. John measured the time it took for the cart to roll to the bottom of the ramp. He did this with an empty cart and again with different-sized blocks in the cart. What question is John trying to answer with this experiment?
- A. Which block weighs more?
  - B. Which block has more gravity?
  - C. How does weight change the speed of the cart?
  - D. How long does it take for the cart to get to the bottom?
-

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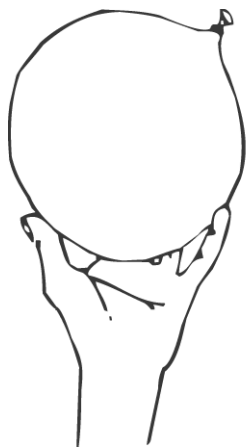
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*Use the pictures below to answer question 17.*



**Picture A**



**Picture B**

17. In Picture A, a boy is holding a balloon. No air can get out of the balloon. He squeezes the balloon so that it is thinner, as shown in Picture B. Which statement is correct?

- A. The balloon is thinner because it lost mass.
  - B. The balloon is longer because it gained mass.
  - C. The balloon is lighter because it lost mass.
  - D. The mass of the balloon stayed the same.
-



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18. Alice did an investigation to see if exercise affected the number of times her heart beat in 15 seconds. In her investigation she took her pulse after doing jumping jacks. The table below shows what she found.

| Number of Jumping Jacks | Number of Heartbeats in 15 Seconds |
|-------------------------|------------------------------------|
| 0                       | 20                                 |
| 5                       | 26                                 |
| 10                      | 28                                 |
| 15                      | 32                                 |
| 20                      | 36                                 |

From her investigation, Alice can conclude that the number of heartbeats

- A. decreases as exercise increases.
  - B. increases as exercise increases.
  - C. stays the same as exercise increases.
  - D. is not related to the amount of exercise.
-

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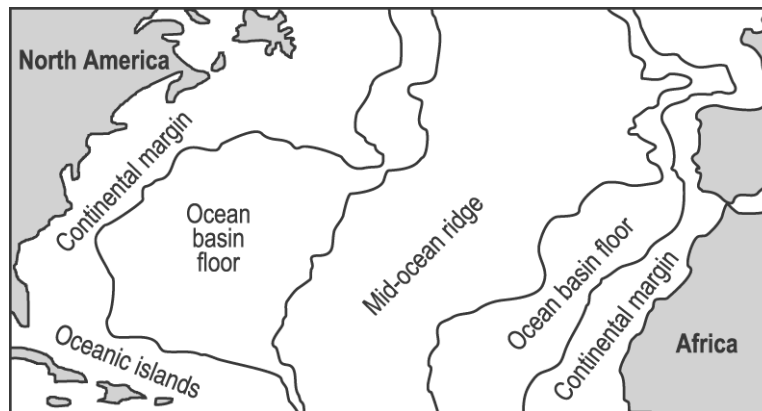
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*Use the map below to answer question 19.*



19. Based on the map, MOST sediments from the continents settle on the

- A. continental margin.
  - B. ocean basin floor.
  - C. mid-ocean ridge.
  - D. oceanic islands.
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20. A doctor kept records of breathing rates of people when they were resting. He made the chart below.

**Breathing Rates**

| Person           | Breaths in a Minute |
|------------------|---------------------|
| Baby boys        | 38                  |
| 7-year-old girls | 25                  |
| 7-year-old boys  | 25                  |
| 10-year-old boys | 20                  |
| Mothers          | 16                  |

The chart suggests that

- A. boys breathe faster than girls.
  - B. girls breathe faster than boys.
  - C. older people breathe faster than younger people.
  - D. younger people breathe faster than older people.
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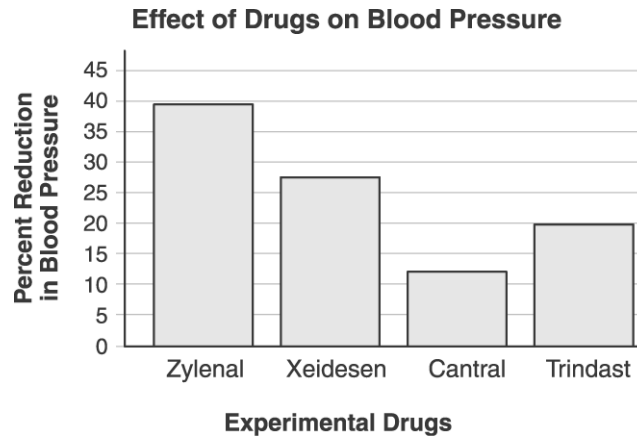
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Use the graph below to answer question 21.



21. Which drug is LEAST effective in reducing blood pressure?

- A. Zylenal
  - B. Xeidesen
  - C. Cantral
  - D. Trindast
- 

22. Which is a device that is used to gather information about formations on the ocean bottom?

- A. sonar
  - B. radar
  - C. MRI
  - D. laser
- 

23. The formation of a gorge is MOST LIKELY a result of

- A. earthquakes.
  - B. volcanoes.
  - C. water erosion.
  - D. plate tectonics.
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24. A valuable ocean resource that is obtained by evaporating ocean water is

- A. coal.
  - B. iron.
  - C. oil.
  - D. salt.
- 

25. The Sun's gravity holds each planet in its orbit. Pluto is farther away from the Sun than Earth is. How does the effect of the Sun's gravity on Pluto compare with the effect of the Sun's gravity on Earth?

- A. The Sun has the same gravitational pull on all planets that are in orbit.
  - B. The Sun has more gravitational pull on Pluto because it is smaller.
  - C. The Sun has less gravitational pull on Earth because it is closer.
  - D. The Sun has less gravitational pull on Pluto because it is farther away.
- 

26. If an object is dropped from an airplane, it will fall to the ground. The force that causes the object to fall is

- A. mass.
  - B. gravity.
  - C. friction.
  - D. weight.
- 

27. The body system that gives you support and allows movement is the

- A. skeletal system.
  - B. circulatory system.
  - C. respiratory system.
  - D. excretory system.
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28. Jeff has two different metal samples. Which tools would Jeff MOST LIKELY use to compare the two metals?

- A. litmus paper and ruler
  - B. ruler and balance scales
  - C. thermometer and litmus paper
  - D. balance scales and thermometer
- 

29. A new organism is observed. The table below shows the information gathered about the organism. Into which kingdom is the organism BEST classified?

| Characteristic               | Unknown Organism                    |
|------------------------------|-------------------------------------|
| single-celled or multicelled | multicelled                         |
| nucleus                      | yes                                 |
| cell walls                   | yes                                 |
| chloroplasts                 | no                                  |
| photosynthesis               | no                                  |
| nutrition                    | absorbs nutrients from surroundings |

- A. Protists
  - B. Plants
  - C. Fungi
  - D. Animals
-

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*Use the pictures below to answer question 30.*



**Pot A**

- One radish seed
- Garden soil
- 100 mL rainwater each day



**Pot B**

- One radish seed
- Garden soil
- 100 mL rainwater with vinegar each day



**Pot C**

- One radish seed
- Garden soil
- 100 mL rainwater with 10 grams salt each day

30. What is the variable in this experiment?

- A. type of seed planted
  - B. type of water used
  - C. amount of water used
  - D. soil type
-