

Name: _____

Date: _____

FIFTH GRADE-SCIENCE (SCIENCE5_1)

1. Joanne wanted to know how far she could throw a ball. She threw it ten times and measured the distance each time. She always got a different measurement. Which of the following will give her the MOST accurate answer?

- A. choose the longest throw
 - B. choose the shortest throw
 - C. average all ten throws
 - D. average the best throws
-

2.

Use the table below to answer this question.

Salt	Composition (%)
Sodium	30.4
Magnesium	3.7
Calcium	1.16
Chloride	55.2
Sulfate	7.7

Which is the most abundant dissolved material in ocean water?

- A. sodium
 - B. magnesium
 - C. calcium
 - D. chloride
-

3. Which system is responsible for delivering nutrients and oxygen and removing wastes and carbon dioxide?

- A. muscular system
 - B. immune system
 - C. nervous system
 - D. circulatory system
-

4. Why do cicadas and crickets chirp and sing?

- A. to fool other insects
 - B. to attract mates
 - C. to scare birds
 - D. to confuse frogs
-

5.

Use the table below to answer this question.

Rock Sample	Rocks Scratched by		
	Fingernail	Penny	Paper Clip
Rock 1	yes	yes	yes
Rock 2	no	no	yes
Rock 3	no	yes	yes
Rock 4	no	no	no

The rock soapstone is named for the fact that it feels like a bar of soap. Its hardness is about the same as soap. Which of the rocks described above could have been soapstone?

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

6.

Use the table below to answer this question.

Cause of Death	Deaths per 100,000 People
Heart Disease	281
Cancer	205
Stroke	59
Lung Disease	39
Accidents	35
Pneumonia	31
Diabetes	22
Liver Disease	10

According to the table, which is the most accurate statement?

- A. More people die of cancer than heart disease.
 - B. Almost twice as many people die of stroke than pneumonia.
 - C. Accidents are the greatest cause of death.
 - D. About the same number of people die of lung and liver diseases.
-

7. What causes earthquakes?

- A. energy being released when crustal plates move
 - B. energy from a hurricane or tornado
 - C. energy that builds up inside a volcanic mountain
 - D. energy being released when erosion occurs
-

8. A new organism is observed. The table below shows the information gathered about the organism.

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

Into which kingdom is the organism BEST classified?

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

9. During photosynthesis, green plants remove a substance from the air. The substance is

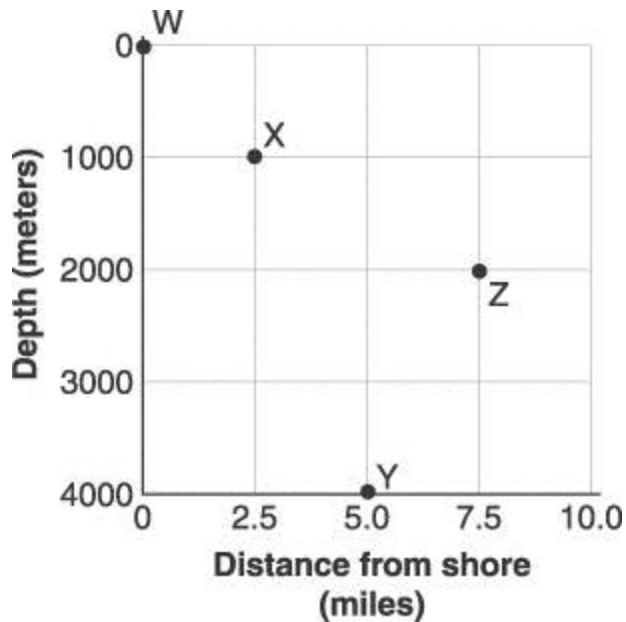
- A. water.
 - B. oxygen.
 - C. sulfur dioxide.
 - D. carbon dioxide.
-

10. Which of the following combine to form a molecule?

- A. atoms
 - B. neutrons
 - C. mixtures
 - D. protons
-

11.

Use the graph below to answer this question.



The graph shows sonar-measured depths moving from a coast in Indonesia out to sea. The depths measured are 2.5 miles apart on a straight line. What ocean bottom feature exists at point Y?

- A. underwater mountain
 - B. continental shelf
 - C. ocean trench
 - D. mid-ocean ridge
-

12. What force attracts an object to Earth?

- A. electricity
 - B. gravity
 - C. mechanical energy
 - D. solar energy
-

13. Which of the following BEST describes "distance"?

- A. a large flat space
- B. how long it takes for something to happen
- C. a long way to go

D. how far it is between two points

14. William put a sugar cube in a cup of hot water. After a period of time, what happened to the sugar cube?

- A. It dissolved.
- B. It stayed on the bottom of the cup.
- C. It evaporated.
- D. It changed color.

15. The part of an atom that has no charge is the

- A. electron.
- B. proton.
- C. neutron.
- D. nucleus.

16. 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

17. Use the table below to answer this question.




Parts of Tongue Responsible for Tastes

	Salt	Sweet	Bitter	Sour
Tip		X		
Across the back			X	
Midway back on the left and right sides				X
Near the tip on the left and right sides	X			

Which diagram correctly illustrates where the flavors of certain foods are tasted on the tongue?

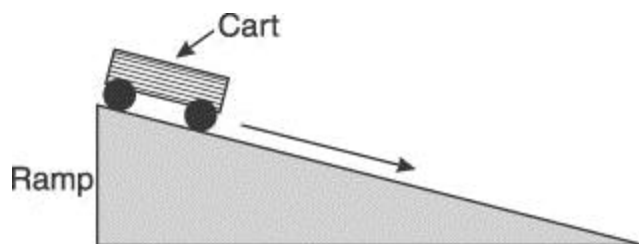


A.

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

18.

Use the picture below to answer this question.



Anne is testing toy carts by seeing how fast they are rolling when they reach the end of a ramp she built. How can she change the investigation so the carts will be going faster when they reach the end?

- A. Add carpet to the surface of the ramp.
- B. Start the cars farther down the ramp.
- C. Raise the angle of the ramp.
- D. Take some of the weight off the carts.

19. Waves breaking on a beach will change it over time. If sediments are moved into the ocean by wave action,

- A. the beach area will decrease.
- B. the beach area will increase.
- C. the beach area will become more level.
- D. the particles on the beach will become smaller.

20. Which pair of kingdoms has members that can make their own food?

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

21. When Jack dropped a rolled-up ball of paper from a fifth floor balcony, it drifted slowly to the ground. What prevented it from falling as fast as a baseball would?

- A. a steady velocity
- B. air friction
- C. acceleration due to gravity
- D. changing mass

22. Waves on the Atlantic Ocean are caused by

- A. the Gulf Stream.
- B. the tidal current.
- C. the wind.
- D. the jet stream.

23. When Jane was swimming in the ocean she got some water in her mouth. What is the MOST LIKELY reason that she quickly spit it out?

- A. The water was too cold.
- B. The water tasted sour.
- C. The water was very salty.
- D. The water tasted bitter.

24. What happens when layers of Earth's crust crack and move?

- A. erosion
- B. weathering
- C. a dust storm
- D. an earthquake

25. You add ashes to one flower bed. To another, you add nothing. All the plants that grow in the bed with the ashes are smaller than the same kinds of plants that grow in the other bed. This finding suggests that

- A. ashes help some plants grow.
- B. rain washed away the nutrients in the ashes so the plants did not grow well.
- C. something in the ashes caused plants to grow less than normal.
- D. ashes have little effect on plant growth.

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FIFTH GRADE-SCIENCE(SCIENCE5_1)

(Answer Key)

1. average all ten throws
2. chloride
3. circulatory system
4. to attract mates
5. Rock 1
6. Almost twice as many people die of stroke than pneumonia.
7. energy being released when crustal plates move
8. Fungi
9. carbon dioxide.
10. atoms
11. ocean trench
12. gravity
13. how far it is between two points
14. It dissolved.
15. neutron.
16. stripes on a zebra
- 17.



18. Raise the angle of the ramp.
19. the beach area will decrease.
20. Protists and Plants
21. air friction
22. the wind.

23. The water was very salty.
24. an earthquake
25. something in the ashes caused plants to grow less than normal.