



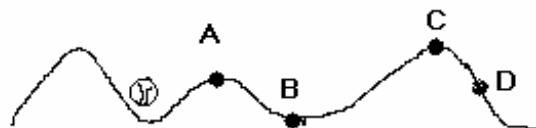
## **SCIENCE PROFICIENCY** **(General Science)**

**Directions:** For each statement or question, choose the letter of the word or expression that, of those given, best completes or answers the question. Then on your answer sheet, blacken the circle that corresponds to your final answer.

## **BEGIN HERE:**

1. For work to be done, what are the factors that must be present?
    - a. force and acceleration
    - b. weight and distance
    - c. force and distance
    - d. weight and force
  2. Salt water has a density greater than that of pure water. What does this mean?
    - a. Salt water is heavier than water
    - b. Salt water is lighter than water
    - c. Salt water is as heavy as water
    - d. Saltwater has more volume than water

For nos. 3-4 Refer to the following figure






Science 1

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For nos. 16 and 17, refer to the table below.

<b>Food use</b>	<b>Temperature</b>	<b>Room lighting</b>	<b>Exposure</b>	<b>Amount of moisture</b>	<b>Result</b>
Home made pandesal	37°C	Dimly lighted	Air	High	Plenty of molds
Home made pandesal	37°C	Dimly lighted	Air	Low	Tiny spots of molds

16. What is the dependent variable in the setup?

  - a. type of bread
  - b. temperature
  - c. amount of moisture
  - d. exposure time

17. What conclusion can be deducted from the experiment?

  - a. Molds like breads.
  - b. Molds grow anywhere.
  - c. Molds grow best in moist places.
  - d. Molds are growing relative to temperature.

18. Gon wants to know which is stronger, Bisuke's punch or Killua's. Using the scientific method, how should Gon setup his controlled experiment?

  - a. Let Bisuke and Killua fight till one of them wins.
  - b. Let Bisuke and Killua punch him then compare which is more painful
  - c. Let Bisuke and Killua punch the same object a number of times then compare the damage done
  - d. All of the above.



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19. The moon is said to light up the night skies. What gives the moon this ability to shine?
- a. The sun's reflection off the moon.
  - b. Radiation produced by the moon's atmosphere.
  - c. Radiation from the Sun that is absorbed by the moon.
  - d. The luminous substance found on the moon's surface.
20. What is not true about moon and tides?
- a. When the moon is close to earth, the lesser the effect of gravity
  - b. When the moon and earth are in line, the highest tides occur on earth
  - c. When earth and moon are at right angles, the lowest tides occur on earth
  - d. There are two high tides at opposite sides of the earth and two low tides at the other
21. What do you call the earth's hard outer shell?
- a. Crust
  - b. outer core
  - c. inner core
  - d. mantle
22. Mt. Mayon which is built from alternate layers of lava and ash with many little craters on its slope is what kind of volcano?
- a. Shield
  - b. cinder
  - c. composite
  - d. caldera
23. 150 mg is equal to \_\_\_\_\_.
- a. 0.015 g
  - b. 0.150g
  - c. 1.50 g
  - d. 15.0g
24. Which star is the hottest star?
- a. Yellow
  - b. Blue
  - c. Orange
  - d. Red
25. Why is Venus the twin planet of the Earth?
- a. Life is possible in Venus.
  - b. Venus has almost the same size as the Earth
  - c. Venus has the same orbit as the Earth to the sun
  - d. Venus has the distance similar to earth from the sun.
26. Which planet is the coldest, smallest, and outermost planet in the solar system?
- a. Neptune
  - c. Mercury

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- b. Mars d. Pluto

27. Mid ocean ridges are result of what plate activity?  
a. Converging plates c. Inverting plates  
b. Diverging plates d. Spreading plates

28. What harmful gas is being released when engines burn fossil fuels?  
a. Sulfur c. Carbon Monoxide  
b. Oxygen d. nitrogen

29. What absorbs a portion of the radiation from the sun, preventing it from reaching the earth's surface?  
a. Chlorofluorocarbon c. Freon  
b. Ozone d. Charon

30. On clear, calm evenings, temperature differences between a body of water and neighboring land produce a cool wind that blows offshore. This wind is called a  
a. Sea breeze c. Morning Breeze  
b. Land breeze d. Evening breeze