ORANGE PUBLIC SCHOOLS OFFICE OF CURRICULUM AND INSTRUCTION OFFICE OF SCIENCE

GRADE 6 SCIENCE Post - Assessment



School Year 2013-2014

Directions for Grade 6 Post-Assessment

The Grade 6 Post-Assessment is made up of multiple choice questions, and constructed response questions.

Read each question carefully, including diagrams and/or graphs. Work as rapidly as you can without sacrificing accuracy. Do not spend too much time puzzling over a question that seems too difficult for you. Answer the easier questions first; then return to the harder ones. <u>Try to</u> <u>answer every question, even if you have to guess</u>.

Where necessary, you may use scratch paper for your work. Do not use the margins of the test booklet to do scratch work.

YOU MUST RECORD ALL ANSWERS IN THE TEST BOOKLET. ALL SHORT CONSTRUCTED RESPONSES AND ESSAY RESPONSES MUST BE WRITTEN IN YOUR TEST BOOKLET. Student Name

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SGO Post-Assessment – Grade 6 – Earth Science

Multiple Choice

Identify the choice that best completes the statement or answers the question. Write the letter of the correct answer in the space provided.

Use the following information to answer question 1.

Jorge discovered that a piece of bread left in a sandwich bag had developed a black mold-like substance growing on its surface. He decided to perform an experiment to determine factors affecting mold growth.

1. In Jorge's bread mold experiment, he used the same brand of bread and sandwich bags. He placed the sealed bags in places that had varying temperatures. Temperature is the:

a. control variable.	c. analysis.
b. hypothesis.	d. experimental variable.

2. Which of the following is the same measurement as 2000 grams of soda?

a. 0.2 liters of soda	c. 2 kilograms of soda
b. 2 liters of soda	d. 2 milliliters of soda

3. All matter consists of tiny particles known as atoms. The different types of atoms are known as:

a. elements.c. molecules.b. compounds.d. chemicals.4. The atoms in gases:

a. vibrate in place.	c. vibrate and move freely about.
b. move freely about	d. vibrate and move freely about, but not at the same
	time.

Choose the one response below that appropriate fills in the blanks from top to bottom.

5. Heat is transferred in conduction by_	
Heat is transferred in convection by	
Heat is transferred in radiation by	

- a. Movement of fluids Direct contact Waves through the air
- b. waves through the air direct contact movement of fluids

- c. direct contact waves through the air movement of fluids
- d. direct contact movement of fluids waves through the ai

6. Most of Earth's water is found in which phase?

- a. Solid
- b. Liquid

c. Gas

d. None of the above

____ 7. Which of the following is an example of water changing its phase?

a. Glacier ice melting

b. A mud puddle evaporating

- c. Dew drops on grass in early morning
- d. All of the above

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8. What affect does increasing atmospheric pressure have on the rate of evaporation?

a. evaporation decreases

b. evaporation increases

c. evaporation stays the same

d. the effect depends on latitude

9. The long-term record of precipitation, wind, and temperature for an area is:

a. weather.	c. meteorology.
b. climate.	d. seasons.

- 10. The correct order for fossil formation is:
- a. Soft body parts decay, sediments are deposited and cover organisms, sediments and hard parts become rock.
- b. Sediments are deposited and cover organism, soft body parts decay, sediments and hard parts become rock.
- c. Hard and soft body parts decay and become rock.
- d. Sediments cover organism and all body parts decay.
- 11. Rocks A, B, and C are layers of sedimentary rocks. Rock D is a rock intrusion. Which rock is oldest? Which rock is youngest?
 - a. C is oldest, D is youngest b. D is oldest, A is youngest

c. B is oldest, D is youngest d. A is oldest, C is youngest

c. C

d. D.

12. In the Geologic Time Scale, *eras*:

a. determine the dominant life forms present. b. are divided into periods.

c. lasted for millions of years.

13. The idea that continents move slowly on Earth's surface is known as:

- a. sea-floor spreading.
- b. mountain making

Refer to the figure to answer question 14

14. On the figure to the right, which area marked is the crust of the earth?

a. A b. B

15. More earthquakes occur near the region on Earth's surface that is split into two pieces because of earthquakes. This region is called a(n):

a. chasm.	c. vent.
b. fault.	d. stick-slip.

rocks are formed from other rock particles broken down into small pieces by the rock cycle. 16.

a. Sedimentary

b. Metamorphic

c. Igneous d. All of the above Α в D С

-B

d. All of the above.

c. continental drift. d. convection cells

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17. Which substance has the greatest effect o	n the rate at which rocks weather (break down))?
a. Sunlight b. Water	c. Chlorophyll d. Hydrogen	
18. If sustainable energy sources are not four	nd and society continues to primarily use non-re	enewable energy
a. pollution will decrease b. there will be an energy shortage	c. there will be more jobs c d. people will stop needing	reated energy
19. If humans put too much pollution in the e	environment:	
a. plants and animals can die.b. habitats can be destroyed.	c. animals move to cleaner d. all of the above.	areas.
20. An astronaut weighs 400 Newtons on the	Moon's surface. On Earth they would:	
a. weigh less. b. weigh more	c. weigh the same d. increase in mass	
21. The length of a planet's day is defined by	vits:	
a. mass. b. period of rotation.	c. density. d. period of revolution.	
22. Which of the following is most responsib	le for causing changing seasons on Earth each	year?
a. Closeness to Earth to Sun during orbit b. Speed of Earth's rotation	c. Tilt of Earth on its axis d. Amount of meteorites in	sky
23. During which phase of the Moon does a s	solar eclipse occur?	
a. Full Moon b. New Moon	c. Waning Gibbous d. First Quarter	
24. Buoyancy describes the concept that:		
a. all objects float in water b. objects denser than water will float in it	c. less dense objects will float in m d. objects must be filled with air in	ore dense fluids order to float
25. The state of water as a solid, liquid, or ga	s in the water cycle is most affected by:	
a. humidity b. wind	c. amount of water d. temperature	
26. As shown on the diagram, the imaginary are east and west of the prime meridian a	vertical lines that are called:	
a. latitude lines.b. longitude lines.	c. contour lines. d. bathymetric lines.	
27. When an object's volume is made smaller	and its mass remains the same, its density:	
a. increases. b. decreases.	c. remains the same. d. increases then decreases	

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Completion –*Write a response to best fit each sentence.*

temperature year-round.

Short Answer - Answer each question in the space provided. Use complete sentences.

30. Label the picture below that illustrates the water cycle. Label all parts as completely as possible, including the four main processes in the water cycle and the source of energy for the water cycle. Be sure to use the following words. Some words may be used more than once.



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31. Trace the path of water from the ocean to groundwater and back to the ocean. **Describe** the processes that allow water to travel from the ocean to the groundwater.

This topographic map shows two different views of an island.









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The number of students in Ms. Jones' science class each year for 10 years is shown in the following data set.

34. Draw a **line graph** of the data set of Ms. Jones' class size on the axes provided, making sure your graph has all the proper parts (title, labels with units, data points, best fit curve).



35. What does the data set show about the trend in class size in Ms. Jones' science class over 10 years?