ORANGE PUBLIC SCHOOLS OFFICE OF CURRICULUM AND INSTRUCTION OFFICE OF SCIENCE

# **GRADE 5 SCIENCE Post - Assessment**



School Year 2013-2014

## **Directions for Grade 5 Post-Assessment**

The Grade 5 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 answer every question, even if you have to</u> guess.

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 YOUR ANSWERS IN THE TEST BOOKLET PROVIDED. ALL MULTIPLE CHOICE, SHORT CONSTRUCTED RESPONSES AND ESSAY RESPONSES MUST BE WRITTEN IN YOUR TEST BOOKLET. Student Name

Grade 5 – FOSS

Teacher \_\_\_\_\_

Date \_\_\_\_\_

### **SGO Post-Assessment – Grade 5**

#### Multiple Choice –

Identify the choice that best completes the statement or answers the question and write the letter of the correct answer in the blank provided.

1. Starch and sugar belong to the group of nutrients called

A. fats.

B. carbohydrates.

C. sweets.

D. yeasts.

2. Donny wanted to find out the percentage of fat in ranch salad dressing. He plans to do the fat test on the salad dressing. Which food should he use as a control?

A. another ranch salad dressing

B. pure Italian dressing

C. pure vinegar

D. pure cooking oil

\_3. In the sugar test, yeast converts sugar into carbon dioxide. The bubbles released show that yeast is

a(n)\_\_\_\_?

A. chemical

B. animal

C. air

D. indicator

\_\_\_\_\_4. Bases taste

A. sweet.

B. sour.

C. salty.

D. bitter.

5. If Maria eats less food (calories) than she uses,

A. her breathing becomes faster.

B. she loses weight.

C. her heart rate increases.

D. the extra food is stored as fat.

6. Which of the following gives us the most energy in calories?

A. Water

B. Fat

C. Carbohydrate

D. Protein

7. The function of a flower in a plant is \_\_\_\_\_.

A. Reproduction

B. Water absorption

C. Food Production

D. Anchor plant in ground

Student Name	Teacher
Grade 5 – FOSS	Date

- 8. Why is it important for plants to transpire?
- A. It keeps the plant from drowning.
- B. It gets rid of water in the plant.
- C. It transports water to every cell in the plant at all times.
- D. It helps plants get water from other plants.
- 9. Which of the following describe a prokaryotic cell?
- A. cells without a nucleus
- B. multicellular organisms
- C. cells that photosynthesize
- D. animal cell

10. Fungi in the natural environment are mostly

- A. consumers.
- B. decomposers.
- C. parasites.
- D. producers.

11. Veronica used a crowbar to pry a nail out of a board. Which of the following diagrams correctly shows where the fulcrum, effort, and load are located on the crowbar when it is used this way?



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

12.

1. A class-3 lever has the	in the middle.
2. A class-2 lever has the	in the middle.
3. A class-1 lever has the	in the middle

A.	fulcrum load effort	C.	load effort fulcrum
B.	effort load fulcrum.	D.	fulcrum effort load

#### Student Name

#### Grade 5 – FOSS

т	lanal	
1	eaci	Iei

Date



A.less friction.B. less work.C. mechanical.D. directional.



15. Joe wanted to find out the relationship between the size of a stone and how far it will travel when thrown. He did an experiment and collected the data shown below:

Size of Stone	Distance
1 g	170 cm
10 g	135 cm
25 g	80 cm
40 g	45 cm
50 g	15 cm

Which of the following would best visually represent this data?

- A. Bar Graph
- B. Line Graph
- C. Pie Chart
- D. Venn Diagram

#### Student Name

Grade 5 – FOSS

Date \_\_\_\_

Refer to the picture below to answer question 16.



16. Which pulley system will require the least amount of effort?

- A. pulley system A
- B. pulley system B
- C. pulley system C
- D. pulley system D

17. What could you change in the lever system pictured below to make it easier to lift the load?

- A. Move the effort toward the fulcrum.
- B. Pull up with the effort rather than down.
- C. Move the fulcrum so it is just below the effort.
- D. Move the fulcrum closer to the load.



**Short Answer** – *Answer each question in the space provided. Study the graph at the right and answer the following questions.* 

18. If the load is 17 cm from the fulcrum, how much effort is needed to lift the load?

19. If it takes an effort of 6.0 N to lift the load, how far would the effort be from the fulcrum?

20. What is the relationship between the amount of effort required to lift the load and the distance the load is from the fulcrum?



Student Name	Teacher
Grade 5 – FOSS	Date

21. Directions: WRITE the letter L next to each object listed below that is living.

mushroom	skateboard	cactus
robot	fire	apple seed
the Sun	beetle	lobster

Answer each question in the space provided. Write legibly and in complete sentences taking care to use proper sentence structure. Address each aspect of the question in your answer.

Michael wants to compare the fat in potato chips and in corn chips, but he isn't sure how.

22. WRITE a procedure Michael can use to compare the fat in potato chips and corn chips.

23. Using only the results from his experiment, **EXPLAIN** how Michael will know which one, corn chips or potato chips, has more fat.

Student Name	Teacher
Grade 5 – FOSS	Date

Darnell and Danielle had 5 cookies. They put 5 g of each cookie into a bag with 50 mL of water and 2 spoonfuls of yeast. They put the 5 bags in warm water. After 20 minutes, they put the 5 bags into measuring tubes. This is what they observed.



24. Put the cookies in order of least sugar to most sugar.

least

most

25. Number the following pictures in the correct order that shows the accurate life cycle of a plant.



Student Name	Teacher
Grade 5 – FOSS	Date

26. Mark an X next to each sentence that describes something you would need to know about an organism if you were setting up a habitat for it.

\_\_\_\_\_ What it eats.

\_\_\_\_\_ What color it is.

\_\_\_\_\_ How much it rains in its natural habitat.

\_\_\_\_\_ If it prefers light or dark.

\_\_\_\_\_ The temperature range in which it can survive

27. To the right is an incomplete drawing of a spring scale.

• **Draw** a bar (the little metal indicator) on the spring scale to show a measurement of *2.6 N* 

28. How much force (effort) does each small, light line on the spring scale represent?

