ORANGE PUBLIC SCHOOLS OFFICE OF CURRICULUM AND INSTRUCTION OFFICE OF SCIENCE

GRADE 5 SCIENCE Pre - Assessment



School Year 2013-2014

Directions for Grade 5 Pre-Assessment

The Grade 5 Pre-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> answer every question, even if you have to 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 ON THE SCANTRON SHEET PROVIDED. ALL SHORT CONSTRUCTED RESPONSES AND ESSAY RESPONSES MUST BE WRITTEN IN YOUR TEST BOOKLET.

S	tudent	Name	
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Date _____

Grade 5 – FOSS

Teacher

SGO Pre-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. Sugar belong A. fats.		group of nutrients called ohydrates.	l C. sw	reets.	D. yeas	ts.
		food she	nd out the percentage of buld he use as a control? B. pure vanilla frosting		-	-	s to do the fat test D. pure vegetable
oil		osting	D. pure vanna nosting	, C.		cicaiii	D. pure vegetable
	_3. What is the A. carbon diox		r in the sugar test? B. sugar	C. wa	ıter	D. yeas	t
						J	
	4. Acids taste A. sweet.		B. sour.	C. sal	ty.	D. bitte	r.
	5. If Peggy eats more food (calories) than she uses,						
	A. her breathing becomes faster. C. her heart rate increases.			B. she loses weight.D. the extra food is stored as fat.			
	6. When seeds A. generated.	start to	grow, we say they have B. germinated.	C. gra	anulated.	D. grad	uated.
	7. In which order do the parts of a plant appear when seeds start to grow? A. Shoot, root, then leaves B. Root, leaves, then shoot						
	C. Leaves, shoot, then root			D. Root, shoot, then leaves			
	8.		are openings on leave				
	A. Guard cells		B. Xylem	C. Ro	oot hairs	D. Ston	nates
	 9. Why is transpiration an important process in a plant? A. It keeps the plant from taking in too much water and drowning. B. It gets rid of unusable water in the plant. 						
	C. It delivers w	vater to e	very cell in the plant at a ater from other plants.	all time	s.		
A how	_ 10. An organis		itat is he environment.		B the other play	nte and e	mimals in the area.
			gets what it needs for life	.	D. structures an		

_____11. Which statement about a microscope is true?

A. Compound microscopes have one lens.

B. The position of the focal plane is fixed.

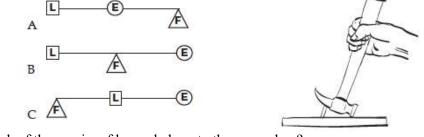
C. A light source is needed to see the objects. objective lens.

D. Objects to be observed are placed on the

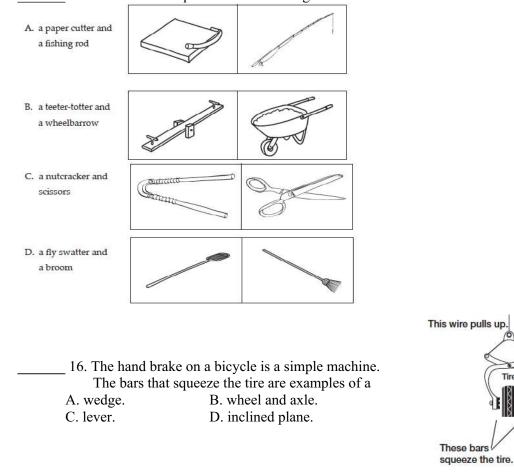
12. Which of the following is NOT a structure found in eukaryotic cells?					
A. Nucleus	B. Ribosome	C. Mitochondrion	D. Stomate		

13. Microbes in the natural environment are mostlyA. consumers.B. decomposers.C. parasites.D. producers.

14. Amber used a hammer 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 hammer when it is used this way?



15. Which of these pairs of levers belong to the same class?

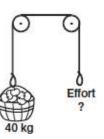


17. When a pulley is used to lift a load, as shown in the illustration,

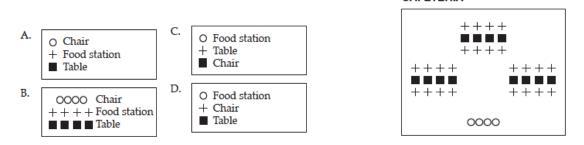


the advantage gained is	
A. mechanical.	B. less work.
C. less friction.	D. directional.

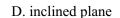
18. Annie wanted to lift a load of apples. She set up the pulley system you see in the
picture. How much effort will Annie need to pull on the rope in order to lift the
apples?A. 400 NB. 200 NC. 800 ND. 450 N



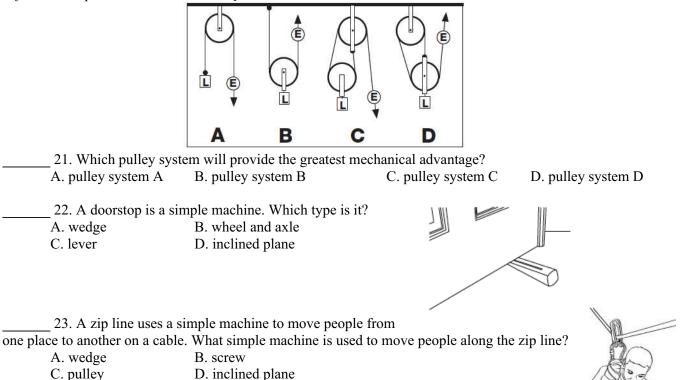
19. The box to the right shows a map of a cafeteria, including tables, chairs, and food station. Which of the following is the most reasonable key for this map?



20. A freeway on-ramp is a simple machine. Which type is it?A. wedgeB. wheel and axleC. lever



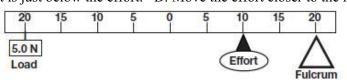
Reference the picture below to answer question 21.



24. 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 down with the effort rather than up. C. Move the fulcrum so it is just below the effort. D. Move the effort closer to the load.



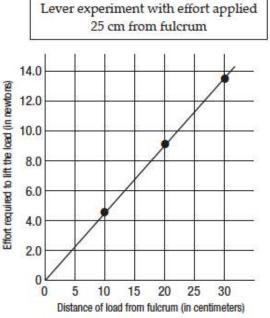
Short Answer: Answer each question in the space provided. Write legibly.

Study the graph at the right and answer the following questions.

1a. If the load is 13 cm from the fulcrum, how much effort is needed to lift the load?

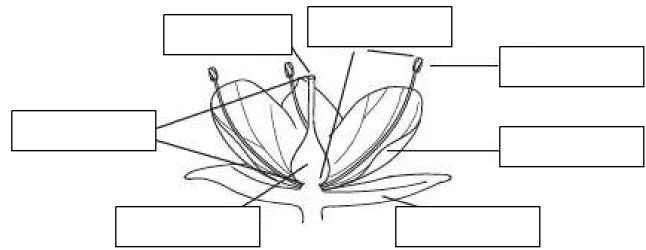
b. If it takes an effort of 10.0 N to lift the load, how far would the effort be from the fulcrum?

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



2. LABEL the structures of the flower in the diagram below.

3.



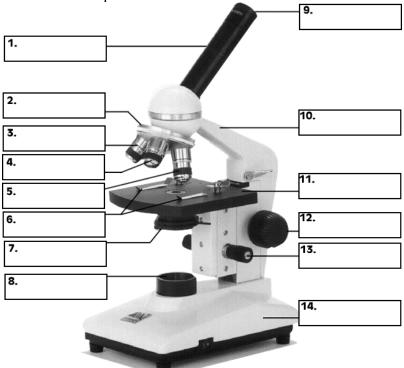
Directions: LEGIBLY WRITE the letter L next to each object listed below that is living. WRITE the

5	· · · · · · · · · · · · · · · · · · ·	0
mushroom	waterfall	pine tree
robot	fire	cactus
moss	snail	tomato seed
Sun	bicycle	hermit crab

letter N next to each object listed below that is nonliving.

4. STATE no less than 4 of the things you would look for to determine if something is living.

5. LABEL the parts of the microscope.



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.

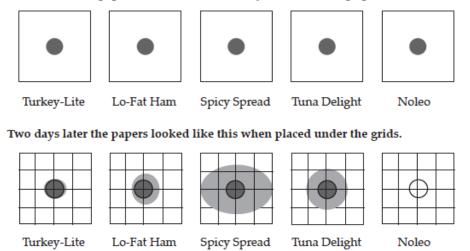
- 6. Anna wants to compare the fat in walnuts and in peanuts, but she isn't sure how.
- a. WRITE a procedure Anna can use to compare the fat in walnuts and peanuts.

b. Using only the results from her experiment, **EXPLAIN** how Anna will know which one, walnuts or peanuts, has more fat.

7. **DESCRIBE** the most important difference between prokaryotic cells and eukaryotic cells.

8. Tina and Artie wanted to find out just how much fat there was in five "low-fat" sandwich spreads. They put 1-g samples of each spread on pieces of brown paper.

This is what the papers looked like when they finished setting up.



a. Put the spreads in order, starting with the spread that contained the least fat.

least

most