ORANGE PUBLIC SCHOOLS OFFICE OF CURRICULUM AND INSTRUCTION OFFICE OF SCIENCE

GRADE 7th SCIENCE Pre - Assessment



School Year 2014-2015

Directions for Grade 7 Pre-Assessment

The Grade 7 Pre-Assessment is made up of multiple choice questions, constructed response questions and performance 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.

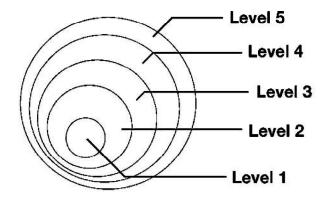
FOR ALL QUESTIONS, YOU MUST RECORD ALL OF YOUR ANSWERS ON THE TEST BOOKLET.

Name	Date

Unit 1 Pre-assessment

Matching:

For questions 1-5 use the graphic below.



Match the level of organization of living things with their place in the biosphere.

individual

- a. biospheres
- b. communities
- c. ecosystems

- d. organisms
- e. populations

- 1. level 1
- 2. level 2
- 3. level 3
- 4. level 4
- 5. level 5

For questions6-10 use the graphic below.

Simple food chain in a field ecosystem Match the following living things with their place in the food chain. a. hawk d. snake b. frog e. grass c. grasshopper ____ 6. producer 7. herbivore 8. carnivore 9. carnivore ____ 10. carnivore **Short Answer** 11. Explain how ecosystems, communities, and populations in the biosphere relate to each other.

12. Describe the process of photosynthesis. Be sure to explain what is needed for
this process and what is produced.

Modified True/False
Indicate whether the statement is true or false. If false, change the identified word or phrase to make the statement true.
13.All living organisms are made up of <u>two</u> or more cells.
14. Organelles are found in the <i>cytoplasm</i> of a cell.
15. The very outside layer of the animal cell is the <u>cell membrane</u> .
16. Cell walls are only found in <u>animal</u> cells.
Short Answer 17. Is the cell in the diagram a prokaryotic cell or a eukaryotic cell ? Compare prokaryotic cells and eukaryotic cells. In your answer use the terms <i>nucleus</i> , <i>organelles</i> , and <i>DNA</i> . Give examples of the types of cells that are prokaryotic and the types of cells that are eukaryotic
Siente:

3. Expl	ain why a muscle cell would ha	ve more mitochondria t	than a skin cell?
	agh plant cells and animal cells nces between a plant and anima		parts, they are different. Explain
Complet	ion		parts, they are different. Explain
complet	ion e each statement.	ıl cell.	
Complet	ion	nplete each sentence. Th	

22. Molecules can move across the cell membrane from lower to	to higher concentrations				
during					
23. The process of making energy that the cell can use is known as cellular					
.					
24. The process during which green plants use sunlight to make food is					
25. Photosynthesis occurs in the	of plant cells.				