

## Cell Quiz Study Guide

Name \_\_\_\_\_

Date \_\_\_\_\_ Hour \_\_\_\_\_

### Learning Targets

- I can safely use a microscope to examine cells and cell structures.
- I can explain how all organisms are made of cells.
- I can explain how some organisms are made of just one cell and others are made of many cells.
- I can explain how cells make up different tissues, organs and organ systems.
- I can explain how cells are specialized in multicellular organisms.
- I can explain how cells take in nutrients to provide energy for the work they do.

### Vocabulary

Cell	Cell wall	Vacuole
Specialized cell	Cell membrane	Unicellular
Tissue	Nucleus	Multicellular
Organ	Chromosomes	Diffusion
Organ system	Chloroplast	Osmosis
Organism	Cytoplasm	Active Transport

### Review Questions

~~1. What does the Cell Theory say?~~

~~\_\_\_\_\_~~  
~~\_\_\_\_\_~~  
~~\_\_\_\_\_~~

2. How are multicellular organisms different from unicellular organisms?

*Unicellular is one celled.*  
*Multicellular is two or more cells.*

3. Give examples of unicellular organisms and multicellular organisms.

*Unicellular - Bacteria, Amoeba, ...*  
*Multicellular - Plant, Animals, ...*

4. What are specialized cells?

*Specialized cells are/have a specific job.*  
*(multicellular)*

5. What is the order of levels of organization in living things, from simple to complex?

*Cells, tissue, organs, organ system, organism.*

16. How do the cells get the food that they need to release energy?

Food is digested and is absorbed into the bloodstream and goes to the cells.

17. How do cells get the oxygen that they need to release energy?

Oxygen is taken into lungs where and goes into blood stream and goes to the cells

18. What are the basic characteristics that all living things share?

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19. Why is oxygen so vital to your body?

Needed for respiration to release energy from Food. (Mitochondria)

20. What is the purpose of mitosis in a multicellular and single celled organism?

Single-celled → Reproduction  
Multi-cellular → Growth, Repair, Specialization