

**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?

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2. How are multicellular organisms different from unicellular organisms?

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3. Give examples of unicellular organisms and multicellular organisms.

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4. What are specialized cells?

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

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6. What does the structure of a cell have to do with its function?

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7. What kinds of activities do cells perform in all living things?

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8. How are plant cells different from animal cells?

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9. In which organelle does photosynthesis take place?

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10. What process breaks down the food made by photosynthesis to release energy for the cell?

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11. What is diffusion?

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12. What is osmosis?

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13. What is active transport?

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14. Which process requires energy to pump materials in and out of the cell? Which do not?

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15. Label the following structures in the cell: cell wall, cell membrane, nucleus, chloroplast, cytoplasm, chromosomes vacuole

