



Unleashing Innovation Through STEM Education

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Lesson: Cells and Cell System

Name:

Teacher:

Date:

1. What is the basic unit of life in all organisms?

- a) Tissue
- b) Cell
- c) Organ
- d) Atom

2. Which organelle controls the cell's activities?

- a) Mitochondria
- b) Ribosomes
- c) Golgi apparatus
- d) Nucleus

3. Which organelle produces energy for the cell?

- a) Vacuole
- b) Mitochondria
- c) Lysosome
- d) Nucleus

4. Jelly-like substance that holds organelles in place:

- a) Ribosome
- b) ER
- c) Vacuole
- d) Cytoplasm

5. Which organelle makes proteins?

- a) Nucleus
- b) Ribosomes
- c) Lysosome
- d) Golgi apparatus

6. Which organelle packages and ships proteins and materials?

- a) Vacuole
- b) Ribosome
- c) Golgi apparatus
- d) ER



7. Breaks down waste and worn-out parts:
- a) Lysosome
 - b) Golgi apparatus
 - c) Mitochondria
 - d) Nucleus
8. Controls what enters and leaves the cell:
- a) Cell membrane
 - b) Cell wall
 - c) Cytoplasm
 - d) Nucleus
9. Which organelle transports materials throughout the cell?
- a) Golgi apparatus
 - b) Ribosomes
 - c) ER
 - d) Cytoplasm
10. Which organelle is unique to plant cells and allows photosynthesis?
- a) Chloroplast
 - b) Lysosome
 - c) Nucleus
 - d) Mitochondria
11. Which organelle is found only in plant cells and provides structure?
- a) Cell wall
 - b) Cytoplasm
 - c) Vacuole
 - d) Cell membrane
12. Animal cells do NOT have:
- a) Nucleus
 - b) Cytoplasm
 - c) Cell wall
 - d) Mitochondria
13. Which organelle stores water and nutrients in plant cells?
- a) Vacuole
 - b) ER
 - c) Lysosome
 - d) Ribosome



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14. Which organelle is like the cell's "post office"?
- a) ER
 - b) Lysosome
 - c) Golgi apparatus
 - d) Ribosomes
15. True or False: All cells have a nucleus.
- a) False
 - b) True
16. True or False: Plant cells have a cell wall; animal cells do not.
- a) True
 - b) False
17. True or False: Mitochondria produce energy for the cell.
- a) True
 - b) False
18. Short Answer converted to multi-select: Select all organelles that are found in both plant and animal cells.
- a) Chloroplasts
 - b) Nucleus
 - c) Ribosomes
 - d) Mitochondria
 - e) Cell wall
19. Short Answer converted to multiple choice: Which statement correctly describes one difference between plant and animal cells?
- a) Both plant and animal cells have cell walls and chloroplasts.
 - b) Neither plant nor animal cells have cell walls or chloroplasts.
 - c) Plant cells have a cell wall and chloroplasts; animal cells do not.
 - d) Animal cells have a cell wall and chloroplasts; plant cells do not.



20. Please label the cell pictured.

nucleus

cell membrane

organelles



a)

b)

c)



Answer Keys

1. c) Cell
2. c) Nucleus
3. b) Mitochondria
4. c) Cytoplasm
5. b) Ribosomes
6. c) Golgi apparatus
7. d) Lysosome
8. d) Cell membrane
9. d) ER
10. a) Chloroplast
11. a) Cell wall
12. b) Cell wall
13. a) Vacuole
14. b) Golgi apparatus
15. b) False
16. a) True
17. a) True
18. b) Nucleus , a) Mitochondria , d) Ribosomes
19. b) Plant cells have a cell wall and chloroplasts; animal cells do not.
- 20.

