YEAR 8 SCIENCE

Cells & Organelles

Compare plant and animal cells and the job of each organelle

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Name: _____ **Date:** _____ **Score:** _____ / 16

Match each organelle to its function.

1.	Nucleus	●	● **a)** stores water and nutrients
2.	Cell membrane	●	● **b)** controls the cell's activities and contains DNA
3.	Mitochondria	●	● **c)** rigid layer that supports plant cells
4.	Chloroplast	●	● **d)** releases energy from food (respiration)
5.	Cell wall	●	● **e)** carries out photosynthesis
6.	Vacuole	●	● **f)** controls what enters and leaves the cell

True or false?

7. Animal cells have chloroplasts. True False
8. Both plant and animal cells have a nucleus. True False
9. Plant cells have a cell wall. True False
10. Bacteria have a nucleus. True False

Choose the best answer.

11. Which tool is used to view cells?
    ⓐ a telescope ⓑ a thermometer ⓒ a light microscope
12. Unicellular organisms are made of...
    ⓐ one cell ⓑ many cells ⓒ no cells
13. A group of similar cells working together is a...
    ⓐ tissue ⓑ organ ⓒ system
14. A microscope has a 10× eyepiece and a 40× objective lens. What is the magnification?
    ⓐ 30× ⓑ 400× ⓒ 50×

Number from smallest (1) to largest (5).

- ☐ Body system
- ☐ Cell
- ☐ Organism
- ☐ Tissue
- ☐ Organ

Write your answer.

16. Why do leaf cells have many chloroplasts but root cells don't?

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Match each organelle to its function.

1. b) controls the cell's activities and contains DNA
2. f) controls what enters and leaves the cell
3. d) releases energy from food (respiration)
4. e) carries out photosynthesis
5. c) rigid layer that supports plant cells
6. a) stores water and nutrients

True or false?

7. False
8. True
9. True
10. False

Choose the best answer.

11. c) a light microscope
12. a) one cell
13. a) tissue
14. b) 400×

Number from smallest (1) to largest (5).

15. Top to bottom: 4, 1, 5, 2, 3

Write your answer.

16. Leaves receive sunlight for photosynthesis; roots are underground with no light.

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