

Name \_\_\_\_\_ Date \_\_\_\_\_ Bell \_\_\_\_\_

## Unit 3: Lesson 3- Cell Structure and Function

### Vocabulary

1. Cytoskeleton (page 227)-

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2. Mitochondria (page 228)-

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3. Ribosomes (page 228)-

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4. Endoplasmic Reticulum (page 229)-

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5. Golgi Complex (page 229)-

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6. Cell Wall (page 230)

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7. Vacuole (page 230- **DO NOT USE DEFINITION IN GLOSSARY!**)-

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8. Chloroplast (page 231)-

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9. Lysosome (Page 232)-

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## What are Characteristics of Eukaryotic Cells? Pages 226-227

1. What is the difference between prokaryotic and eukaryotic cells?

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2. What are some characteristics of eukaryotic cells?

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3. What is the difference between structure and function?

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4. What do all eukaryotic cells have in common with one another?

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5. Every cell is surrounded by: \_\_\_\_\_

6. What is a cell membrane?

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7. What is cytoplasm?

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8. What is cytoskeleton?

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9. What is the Nucleus?

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10. What is DNA?

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11. What is the Nucleolus?

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12. What is the Nuclear Membrane?

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## What organelles are found in plant and animal cells? Pages 228-229

13. What is the function of the mitochondria?

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14. What is the function of the ribosomes?

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15. What is the function of the Endoplasmic Reticulum?

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16. What is the function of the Golgi complex?

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17. What organelles do all eukaryotes have in common?

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18. Why are mitochondria called the powerhouse of the cells?

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19. How do ribosomes make proteins?

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20. How does rough ER differ from smooth ER in structure and function?

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## What Additional Parts are found in Plant Cells? Pages 230-231

21. What is the function of the Cell Wall?

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22. What is the function of the Large Central Vacuole?

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23. What is the function of the Chloroplasts?

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24. What is Photosynthesis?

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25. What is the role of chlorophyll inside the chloroplasts?

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26. How do large central vacuoles differ from vacuoles?

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27. What are some of the ways that plants and animals are different that might explain some of their cellular characteristics?

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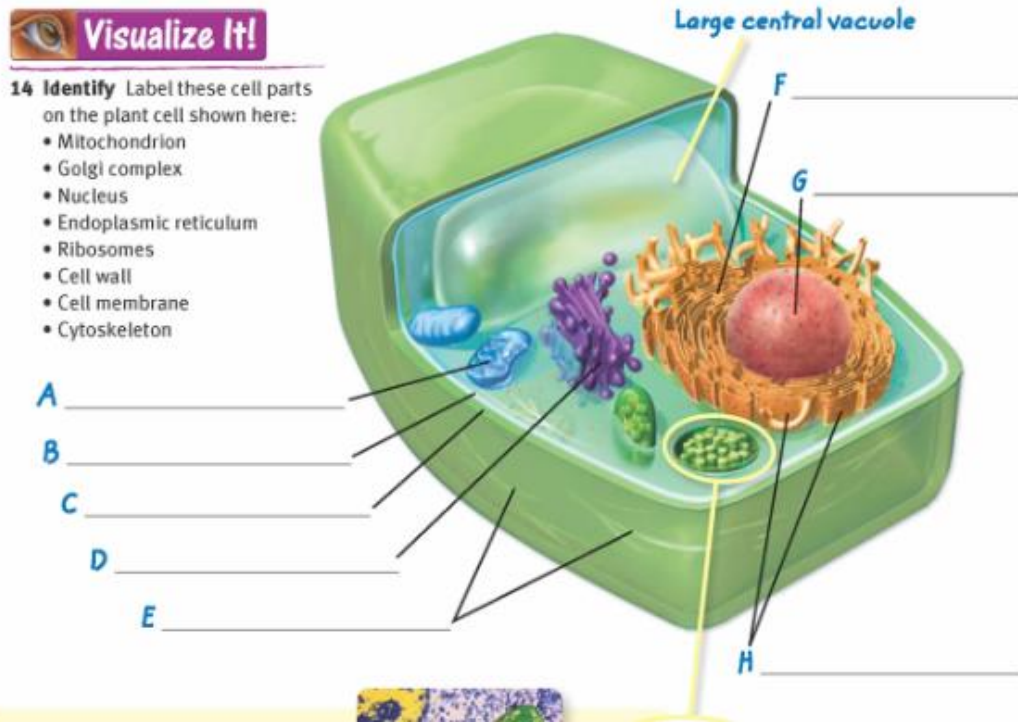


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28.



## What are Additional Parts Found in Animal Cells? Pages 232-233

29. What is the function of the Lysosomes?

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30. What are Centrioles?

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31. How are lysosomes similar to vacuoles?

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32. Why can't animals make food?

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33. How are plants and animal cells alike and different?

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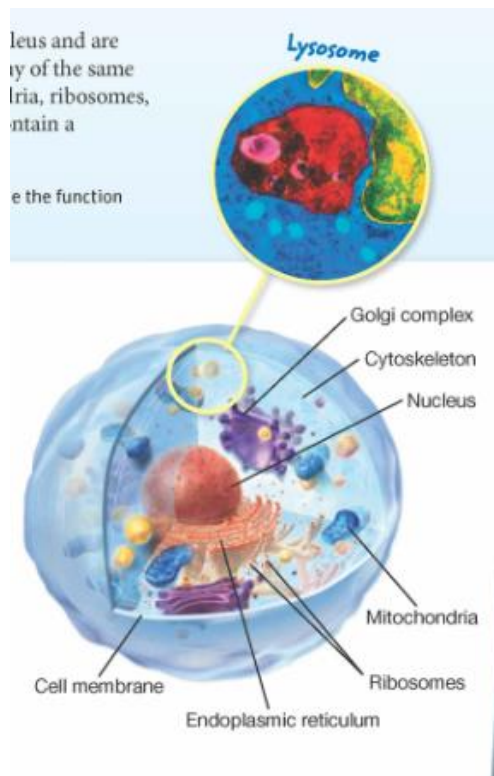
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34. What structures are found in plant cells that are not found in animal cells?

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**19 Compare** Draw a sketch for each organelle identified in the *Structure* column. Put check marks in the last two columns to identify whether the cell structure can usually be found in plant cells, animal cells, or both.

Structure	Function	In plant cell?	In animal cell?
Nucleus	Contains the genetic material		
Endoplasmic reticulum	Processes and transports proteins and makes lipids		
Golgi complex	Packages and distributes materials within or out of the cell		
Ribosome	Makes proteins		
Chloroplast	Uses sunlight, carbon dioxide, and water to make food by photosynthesis		
Mitochondrion	Breaks down food molecules to release energy by cellular respiration		
Large central vacuole	Stores water and helps give shape to the cell		
Lysosome	Produces enzymes that digest wastes, cell parts, and foreign invaders		