

Name: \_\_\_\_\_

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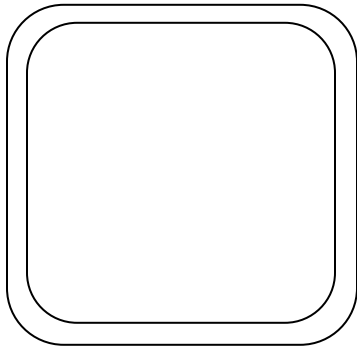
SSL3: Obtain, evaluate, and communicate information to compare and contrast the parts of plant and animal cells.

- Gather evidence by utilizing technology tools to support a claim that plants and animals are comprised of cells too small to be seen without magnification.
- Develop a model to identify and label parts of a plant cell (membrane, wall, cytoplasm, nucleus, chloroplasts) and of an animal cell (membrane, cytoplasm, and nucleus).
- Construct an explanation that differentiates between the structure of plant and animal cells.

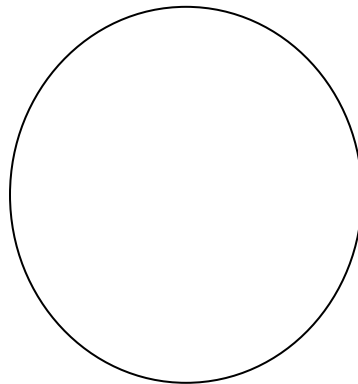
## Plant / Animal Cell Study Guide

### Text pgs. 324-329

Identify if the cell is a plant cell or animal cell by its shape.

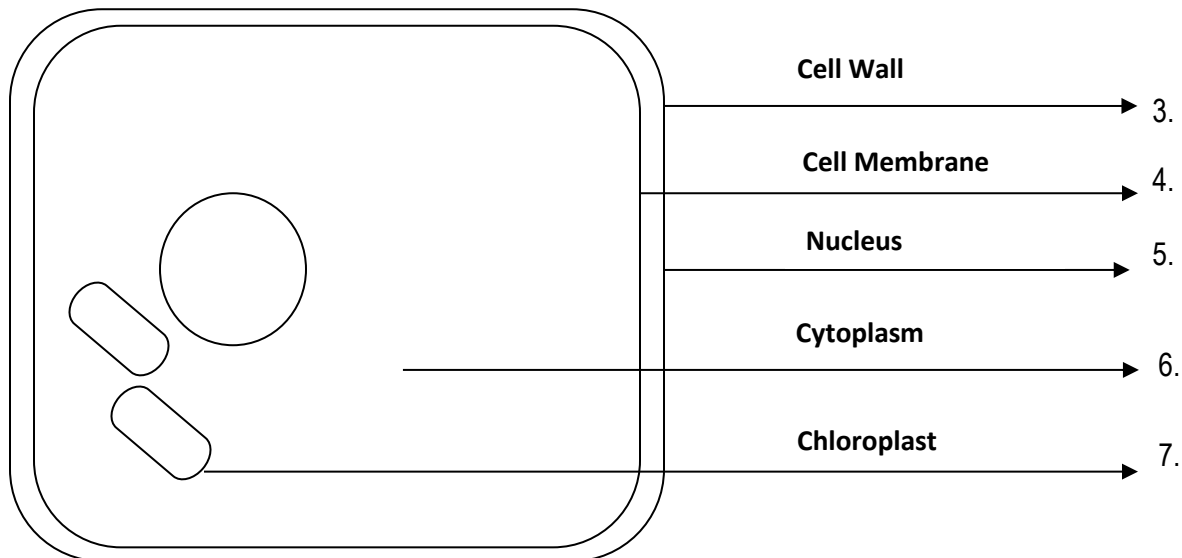


1. Plant



2. Animal

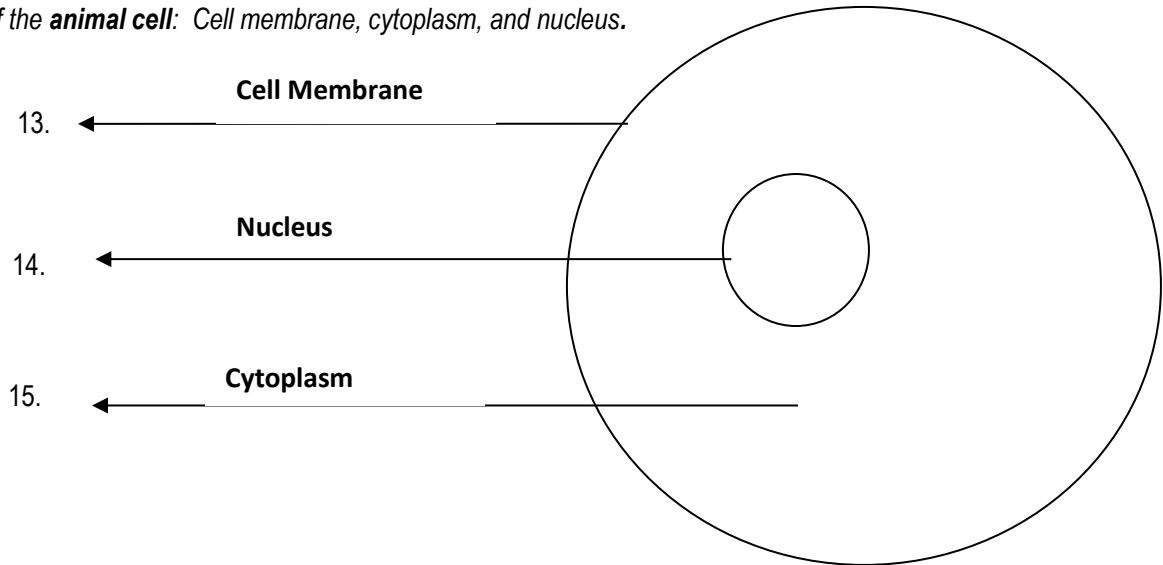
Label the parts of the **plant cell**: Cell membrane, cell wall, cytoplasm, nucleus, chloroplast.



Write the function (job) of each organelle (part).

	Cell Organelle (Part)	Function (job)
8.	cell membrane	Holds a cell together and separates it from its surroundings
9.	cell wall	Supports and protects a plant cell
10.	cytoplasm	A jelly-like substance containing chemicals that help the cell stay healthy
11.	nucleus	Directs the cell's activities
12.	chloroplast	Makes food for the cell

Label the parts of the **animal cell**: Cell membrane, cytoplasm, and nucleus.



Write the function (job) of each organelle (part):

	<b>Cell Organelle (Part)</b>	<b>Organelle (part) Function (job)</b>
16.	cell membrane	Holds a cell together and separates it from its surroundings
17.	cytoplasm	A jelly-like substance containing chemicals that help the cell stay healthy
18.	nucleus	Directs the cell's activities

Short answer / fill in the blank:

19. All living things are made of **CELLS**.
20. All parts of the cell must work **TOGETHER** to run smoothly.
21. An organism can't **SURVIVE** without cells doing their work.
22. The chloroplast uses the energy of the **SUN** to make **FOOD** for the cell.
23. Why don't animal cells have chloroplasts? **Animals do not make their own food, so they do not need chloroplasts.**
24. Where does photosynthesis take place? **Photosynthesis occurs inside the chloroplasts inside plant cells.**
25. **CHLOROPHYLL** is a green pigment in chloroplast that aids in photosynthesis. It also gives plants their green color.
26. The basic unit of structure and function in living things is the **CELL**.
27. What scientific tool is used to observe cells and their structures? **A MICROSCOPE.**
28. How are the structures of plant cells and animal cells different? **Plant and animal cells both have a cell membrane, nucleus, and cytoplasm. Animal cells are different from plants cells because they have other structures to support them, so they do not need the extra support provided by a cell wall. Animals also do not make their own food, so they do not need chloroplasts.**