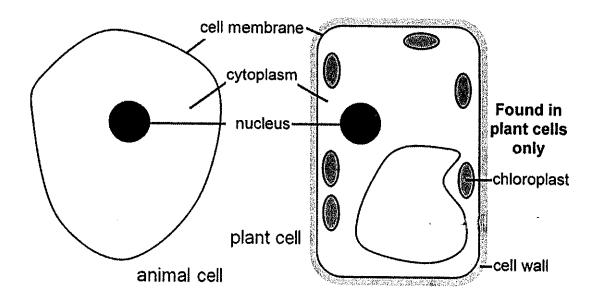
Plant and Animal Cells Study Guide

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You should be able to define the following terms:

- cell tiny part of a living thing that can carry out all the processes of life.
 Plants and animals are both made of cells.
- cell membrane a thin layer that allows some materials to pass in and out of the cell. It holds all the parts of a cell. (found in both animal and plant cells)
- nucleus located in the center and controls growth of the cell. It contains genetic information (DNA).
- organelles small, specialized structures in cells that carry out specific tasks. All organelles are located in the cytoplasm.
- cytoplasm clear, jelly-like substance that fills the cell.
- cell wall surrounds the plant cell; protects the cell; stiff cell walls of plants prevent the shape from changing.
- chloroplasts produce food for the plant.

You should be able to label and identify the parts of plant and animal cells.



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Explain why plant cells have chloroplasts and a cell wall, but animal cells do not.

Plant cells have chloroplasts that makes food for the cell. Animal cells cannot make their own food, because animal cells find their own food. Plant cells need a cell wall for structure. Animal cells have the skeletal system for structure, so they do not need a cell wall.

Explain how plant and animal cells are alike and how they are different.

Plant and animal cells are alike in some ways and different in others. Both cells have a cell membrane (allows nutrients in and waste out), nucleus (controls cell growth), and cytoplasm (jelly-like substance that fills the cell). Both cells also have organelles, which are specialized structures in cells that carry out specific tasks. Only the plant cell has a cell wall (surrounds and protects the plant cell) and chloroplasts (produce food for the plant).