

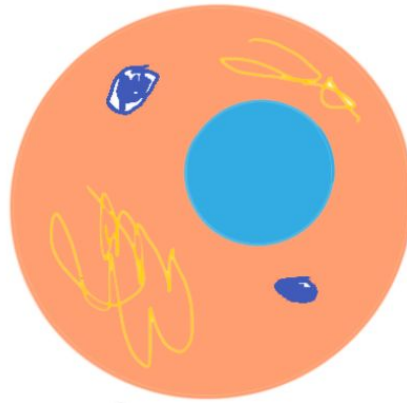
The



Cell

Book

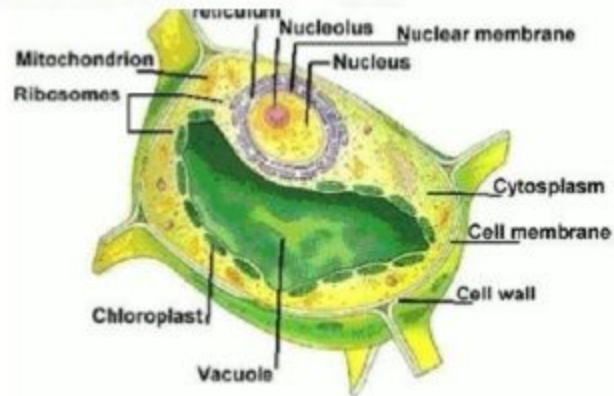
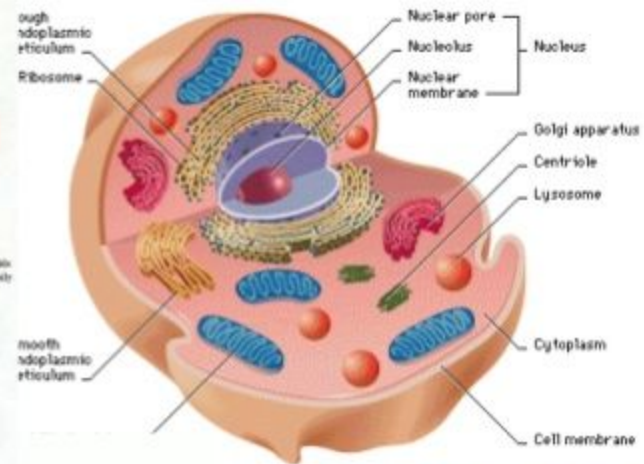
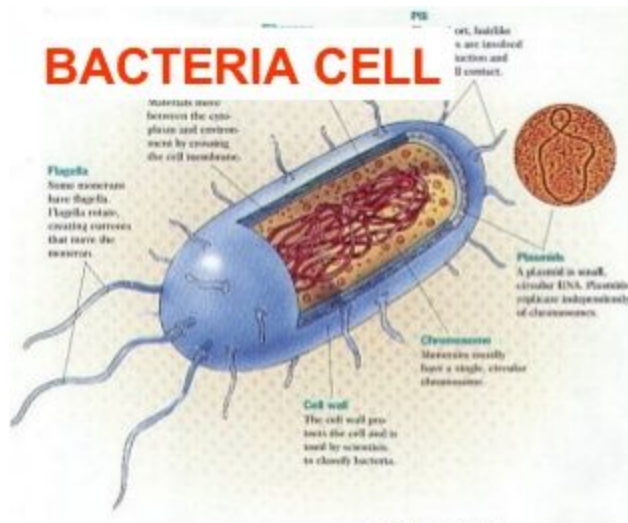
# What Is a Cell?



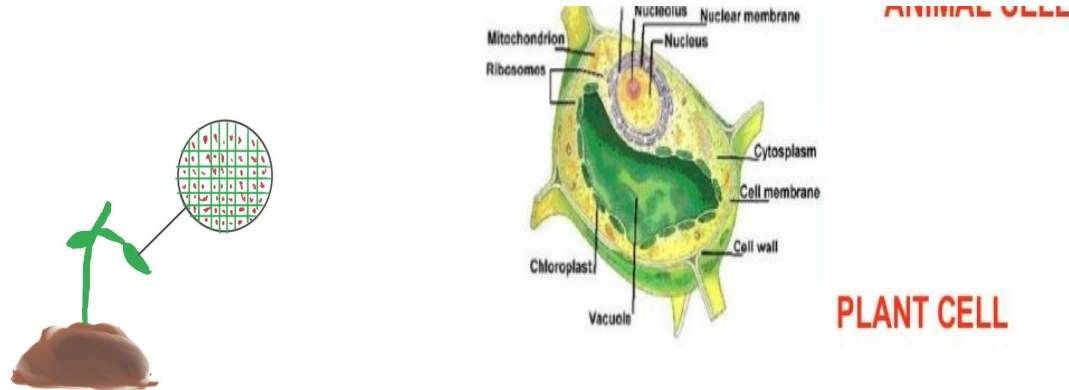
\* Humans are made up of way more Cells\*

A cell is the smallest unit of life. You are made of billions of cells and there are multiple types of cells in your body and in other living things but we will just name the basic two.

## What Types of Cells are There?



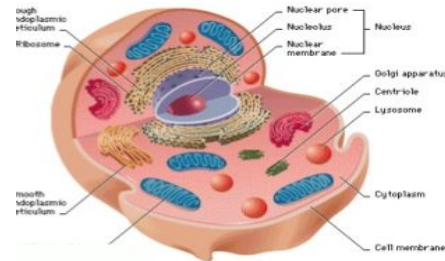
# Plant Cell



The plant cell is the basic building block of a plant. There are a lot of plant cells in a plant. The main things in a plant cell are the vacuole, nucleus, mitochondria, chloroplast, cell membrane, cell wall, and cytoplasm.

- **Vacuole-** Filled with cell sap which keeps the cell enlarged with water
- **Nucleus-** It controls the activity of the cell (the brain of the cell)
- **Mitochondria-** Most energy is released here
- **Chloroplast-** Contains chlorophyll which is used to get energy by photosynthesis
- **Cell membrane-** Controls the movement into and out of the cell
- **Cell wall-** Strengthens the cell
- **Cytoplasm-** some chemical processes are here and are controlled by enzymes

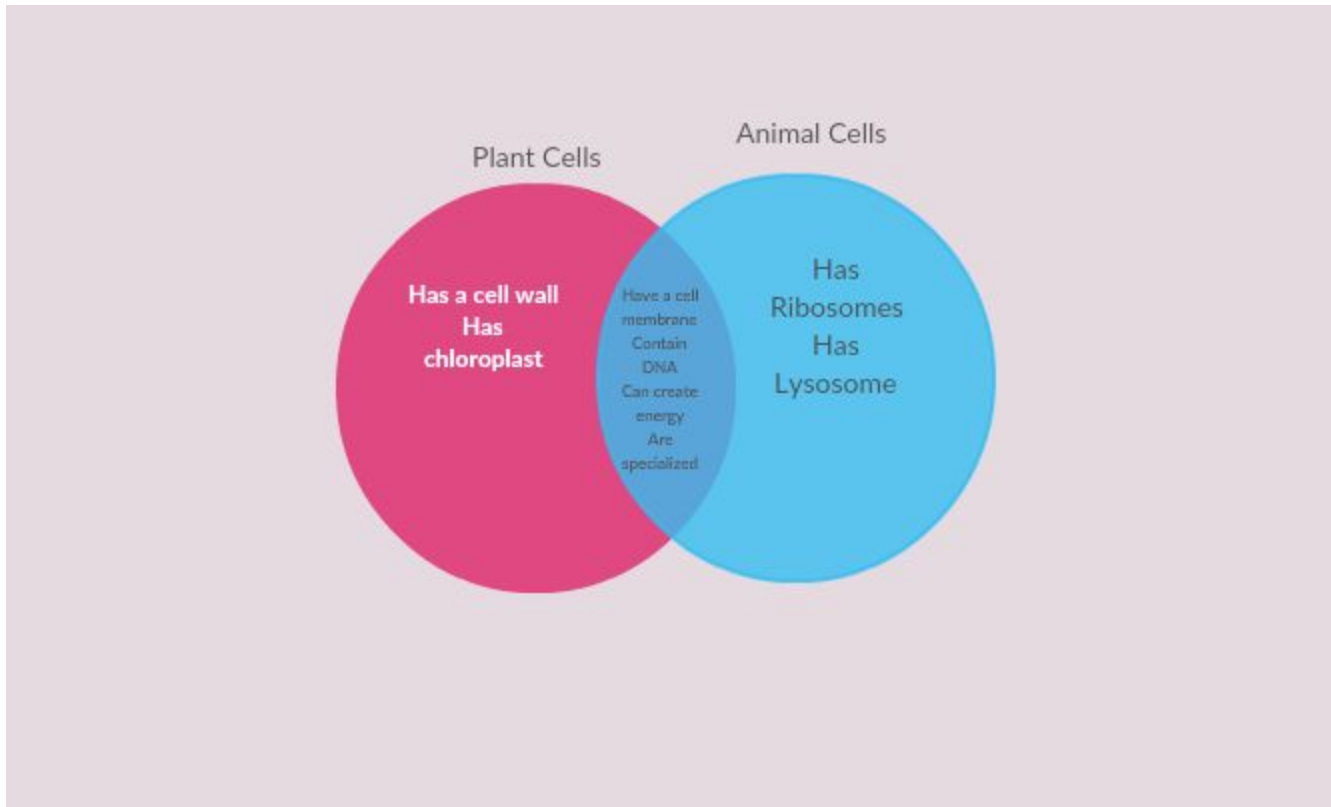
# Animal Cell



The animal cell is the basic building block of an animal. An animal cell has no cell wall. There are many pieces and forms of an animal cell. Here are all of the things in the animal cell.

1. **Vacuole:** Provides pressure
2. **Ribosomes:** Makes proteins
3. **Rough endoplasmic reticulum:** also makes proteins
4. **Mitochondrion:** Protein digestive
5. **Smooth endoplasmic reticulum:** Protein synthesis
6. **Cell membrane:** Protection of cell
7. **Lysosome:** Removes waste
8. **Nuclear membrane:** Enclosed nucleus
9. **Nucleus:** Contain DNA, give instructions
10. **Nucleolus:** outside of the nucleus
11. **Cytoplasm:** the fluid that fills the cell
12. **Golgi system:** Gathers small cells to make molecules
13. **Centrioles:** develops the spindle fibers

# Similarities and Differences



The

End

# Keep Separate

## References

Cell. (2016). In *Encyclopædia Britannica*. Retrieved from  
<http://library.eb.com.douglascountylibraries.idm.oclc.org/levels/youngadults/article/273572#198371.toc>

Rogers, P. (2011, July 23). The types of cells. Retrieved October 21, 2016, from  
<http://image.slidesharecdn.com/pab-140923104709-phpapp01/95/pab-2-638.jpg?cb=1411469255>

Cells and simple cell transport. (2014, November 15). Retrieved October 25, 2016, from  
[http://www.bbc.co.uk/schools/gcsebitesize/science/add\\_aqa/cells/cellsrev1.shtml](http://www.bbc.co.uk/schools/gcsebitesize/science/add_aqa/cells/cellsrev1.shtml)



