

Gateway Biology Review

Characteristics of Living Things

- Reproduce
- Grow
- Develop
- Need food/require energy
- Made of cells
- Respond to their environment
- Adapt to their environment

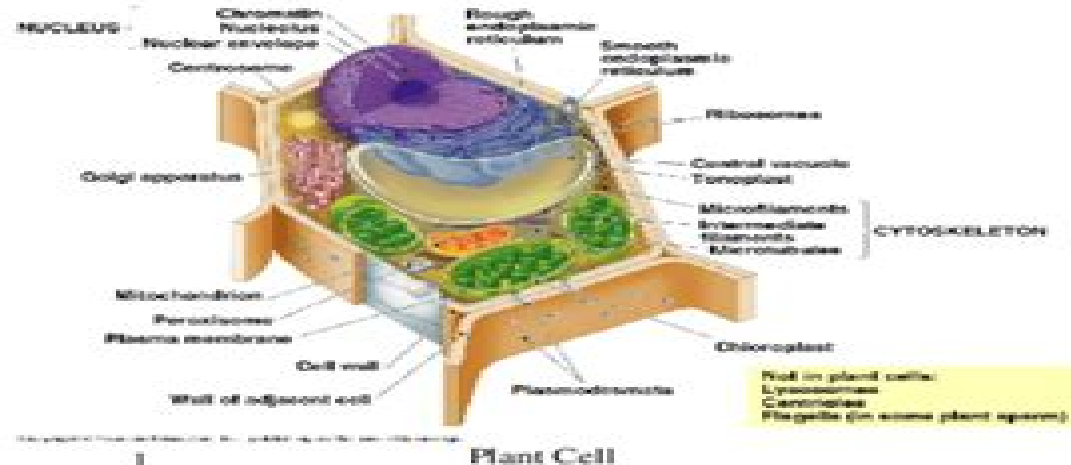
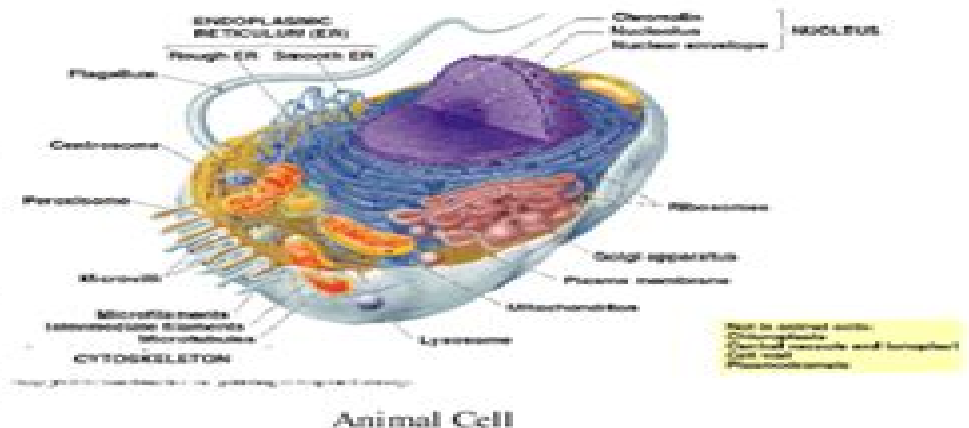
Cells and Heredity

Cell Theory

1. All living things are made of cells.
2. The cell is the basic unit of structure and function
3. All cells come from preexisting cells

Organelles and Cell Parts

1. Cell Membrane (Plasma membrane)
 - _____ cell
 - Selective barrier
 - Controls what substances enter and exit the cell
2. Cytoplasm
 - Jelly-like material that _____ the cell
3. Ribosomes:
 - Site of _____ (where _____ are made)
4. Golgi Apparatus
 - Prepare proteins that will leave the cell or be placed in the plasma membrane
 - "Post Office" of the cell
5. Mitochondria
 - _____ of the cell
 - Site of cellular _____ which produces ATP from sugars (glucose)
6. Lysosome
 - _____ macromolecules
 - Single celled organisms—eating, digest food
 - Digest/recycle old organelles; "stomach of the cell"
 - Immune system
7. Centrosome
 - Produce microtubules during _____
8. Rough Endoplasmic Reticulum
 - _____ attached
 - Production of proteins



Mastering Biology Chapter 3

Christian G. Meyer



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