**A. Cell Theory**

**Cell** **Theory**

* All organisms are made of one or more cells.
* Cells are the basic structure and function in all organisms.
* All cells come from other cells.

**B. Cell Vocabulary**

Prokaryote (Prokaryotic)- an organism whose cells do NOT have a nucleus.

Eukaryote (Eukaryotic)- an organism whose cells have genetic material enclosed in a nucleus.

Organism- any living thing.

Organelle- any part of a cell.

**C. Cell Organelles**

|  |  |  |
| --- | --- | --- |
| **Organelle** | **Location** | **Function** |
| \*Cell Wall |       |       |
| \*Cell Membrane |       |       |
| \*Nucleus |       |       |
| \*Nuclear Envelope (Membrane) |       |       |
| \*Chromatin (DNA) |       |       |
| Nucleolus |       |       |
| \*Cytoplasm |       |       |
| \*Mitochondria (mitochondrion) |       |       |
| Endoplasmic Reticulum (ER) |       |       |
| \*Ribosomes |       |       |
| Golgi Bodies |       |       |
| \*Chloroplasts |       |       |
| \*Vacuoles |       |       |
| Lysosomes |       |       |
| Vesicle |       |       |





**D. Compare and Contrast**: Plant Cell, Animal Cell, Bacteria Cell

|  |  |  |
| --- | --- | --- |
| **Plant Cell** | **Animal Cell** | **Bacteria Cell** |
|  |  |  |

**E. Organization of Living Things**

|  |  |  |
| --- | --- | --- |
| **Level** | **Definition** | **Example** |
| Biosphere |       |       |
| Biome |       |       |
| Ecosystem |       |       |
| Community |       |       |
| Population |       |       |
| Organism |       |       |
| Organ System |       |       |
| Organ |       |       |
| Tissue |       |       |
| Cell |       |       |
| Organelle |       |       |

**F. Benefits to being Multicellular**

1.

2.

3.