Different Jobs of Cells Notes

1. Your body is made up of many different types of specialized cells. A cell's size and shape are directly related to their function (job).

Types of Human Cells

- 1. Fat cells store so much fat the nucleus gets pushed against the cell membrane.
- 2. Bone cells are surrounded by hard calcium and phosphorus; gives strength to the skeletal system.
- 3. Nerve cells are long and have many branches; they receive and deliver messages quickly.
- 4. Muscle cells are long and have many fibers that contract and relax so the body can move.
- 5. Skin cells are flat and very close together; they form a protective layer for the body.

Types of Plant Cells

- 1. Leaf cells are brick-shaped and contain many chloroplasts.
- 2. Stem cells are long and tube-shaped; they move water and minerals quick and easy through the plant.
- 3. Root cells are block-shaped and do not contain chloroplasts. They absorb water and minerals.

Cell organization – cells are organized into systems that together perform functions that keep the organism alive.

- 1. Levels of cell organization range from simplest to complex.
 - a. Cell the simplest level of cell organization.
 - b. Tissue groups of similar cells that do the same sort of work. EX: muscle tissue, nerve tissue
 - c. Organ different types of tissues working together.
 EX: the stomach is an organ that includes muscle tissue, nerve tissue, and blood tissue; other examples are the heart and kidney
 - d. Organ system two or more organs working together to do a certain job. EX: respiratory system, digestive system
 - e. Organism organ systems working together and is the most complex level of cell organization.

EX: the muscular system works with the skeletal system to create movement for the organism.