CELLS COMPARED TO THE HUMAN BODY

By: Lindsay Mundt
Period 4
The Brain is also like the Nucleus because the brain tells you what to do and how to react to things.

A Nucleus is all the cells' functions and tells what the cell to do.
Cell membrane is the outside boundary and controls which substance to leave or enter the cell.

Skin is like the cell membrane because it keeps all the bacteria out of the human body.
**ENDOPLASMIC RETICULUM (ROUGH AND SMOOTH)**

Rough endoplasmic reticula synthesize proteins, while smooth endoplasmic reticula synthesize lipids and steroids, metabolize carbohydrates and steroids.

The Muscles Are almost like the E.R Because the muscles take in Proteins and Steroids.
Ribosomes Make protein
And They're found in Cytoplasm

The tissue and Blood stream can produce Protein and store them in the muscles.
Golgi body receives proteins and other newly formed materials from the e.r.

Your hair and nails is basically made out of proteins. That’s why it’s important to have a lot of proteins in your body.
The mitochondria converts the energy out of food to the cell so the cell can carry out its functions.

The part of body that takes the energy out of the body is the fat tissues in your body (it also store energy too).
A small cavity in the cytoplasm of a cell that stores food, waste, and materials (Animal cells have multiple small vacuoles while plant cells have one large one).

The stomach is like a vacuole because it stores food.
CHLOROPLAST (PLANT ONLY!!)

The structure in a plant cell that captures energy from sunlight and use it to produce food.

The Kidneys are like chloroplast because it takes the sunlight but instead making food she makes it into vitamin D.
The cell wall hold up the cells shape. In other words, so the cell won't be mixed up or all over the place.

Don't forget!! This is plant cells only!!

The human skeleton is almost like the cell wall because it holds up our body shape so we won't be floppy.
LYSOSOMES

A small cell structure containing chemicals that break down large food particles.

Stomach acid is like lysosomes because it breaks down larger food with a chemical reaction.