WHAT DOES A PLANT & ANIMAL CELL LOOK LIKE?

We just finished learning about Protists (Amoeba, Paramecium, Euglena, Volvox). Now we are moving on to learn about plant and animal cells. Do they look similar to Protists? Do they have the same organelles? Do the organelles they have perform the same function?

Below is a list of organelles and the different functions that occur within plant and animal cells. Use your background knowledge and match each organelle to its function.

REMEMBER THIS IS WHAT YOU THINK; YOU ARE MAKING AN EDUCATED GUESS! <u>NO USE OF TECHNOLOGY!</u> *PLEASE DO THIS BY USING WHAT YOU HAVE ALREADY LEARNED!*

After matching the organelles with their function, it's time to put your artistic abilities into play. A large sheet of computer paper will be provided. Fold this paper in half (hamburger style). Attempt to draw (*<u>what you think</u>*) a plant and animal cell. Additionally, draw in **<u>ALL</u>** of the organelles that you believe are in the plant and animal cell. Draw what you believe they look like. **<u>Make sure to use COLOR!!!!</u>**

ORGANELLE WORD BANK

Centrioles Vacuole Nucleolus Mitochondria Chloroplast Ribosome
Nuclear Membrane Endoplasmic Reticulum Golgi Body Cell Membrane
Cell Wall Lysosome Nucleus Cytoplasm

ORGANELLE	FUNCTION
1.	Storage of food, water, wastes and enzymes
2.	Converts stored food into energy
3.	Produces proteins
4.	Transport system within the cell
5.	Controls what enters and leaves the cell
6.	Contains enzymes that break down things
7.	Supports the cell, allows parts to move
8.	Control center
9.	Supports and protects plant cell
10.	Package and transport proteins from the cell
11.	Controls what enters and leaves the nucleus
12.	Makes chemical energy from sunlight
13.	Controls cell reproduction and makes ribosomes
14.	Aids in cell division

Animal Cell Hints: I am smooth and often round; however, not a perfect circle ☺

Plant Cell Hints: I am ridged with more of a somewhat boxy shape ☺