

## Honors Cell Biology with Ms White

### Summer Homework Assignment #2: Make a Cell Model

Due Date: August 15<sup>th</sup>, 2017

You will make a **model** of a cell (either plant **or** animal) and **film** yourself using it to teach a quick lesson about the following:

Please teach the **structure and function** of the following organelles (some of the following are found only in plants OR only in animals...which ones?):

1. plasma membrane
2. cell wall
3. nucleus
4. ribosome
5. cytoplasm
6. rough endoplasmic reticulum
7. smooth endoplasmic reticulum
8. Golgi apparatus
9. vacuole
10. lysosome
11. mitochondria
12. chloroplast
13. cytoskeleton

Please teach the **difference** between these terms:

- prokaryote and eukaryote
- plasma membrane and cell wall
- chloroplast and mitochondria
- plant and animal cell

### Project requirements:

- 1. Research the organelles and terms so you understand their structure and function.**
- 2. Your model may be made out of anything that you have handy around your house or neighborhood (sticks, grass, rocks and leaves, food items, playdoh or modeling clay...Use your imagination!)**
- 3. Make a short (no more than 3 minutes) film of your presentation where you use your model to teach the structure and function of the terms listed above. You should be the only person in your film and please, use school appropriate language. Share your film with me by August 15<sup>th</sup>.**