

**Honors Microbiology with Ms White**  
**Summer Homework Assignment #2:**  
**Make a Cell Model Video Comparing Eukaryotes and Prokaryotes**

**Due Date: August 15<sup>th</sup>, 2018**

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

Please teach the **structure and function** of the following structures (some of the following are found only in eukaryotes...which ones?):

1. plasma membrane
2. cell wall
3. nucleus
4. ribosome
5. cytoplasm
6. mitochondria
7. chloroplast

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

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

**Project requirements:**

- 1. Research the types of cells, organelles and terms so you understand their structure and function. Be very clear about the difference between eukaryotes and prokaryotes! This is the most important part of your video!**
- 2. Your two models 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 models to teach the assigned terms and differences 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>.**