

**Cell Structure & Organelles 101 Video Review**

**Cell Organization**

Define the following terms & explain how they keep the cell alive:

- Organelles - \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- Cytoplasm - \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- Nucleus - \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Organelles that Store, Clean up, & Support**

Define the following terms & explain how they keep the cell alive:

- Centrioles - \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- Cytoskeleton - \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- Vacuoles - \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- Lysosomes - \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Organelles that build proteins**

Define the following terms & explain how they keep the cell alive:

- Ribosomes - \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- Endoplasmic reticulum - \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- Golgi apparatus - \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Organelles that capture and release energy**

Define the following terms & explain how they keep the cell alive:

- Chloroplasts - \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- Mitochondria - \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Cell Boundaries

Define the following terms & explain how they keep the cell alive:

Cell wall - \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Cell membrane - \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Make a Venn Diagram below listing the similarities and differences of plant and animal cells using the chart in the video**

1. How is the role of the nucleus similar to a principal at a school? \_\_\_\_\_

2. What would happen in the cell if the lysosomes were malfunctioning? What about the golgi body or vacuoles? \_\_\_\_\_

3. What is the difference between the rough and smooth endoplasmic reticulum? \_\_\_\_\_

4. Put in order the organelles responsible for building proteins and what role each one of them plays in the process. \_\_\_\_\_

5. You are looking at a cell under a microscope and discover that it contains chloroplasts. What type of organism would chloroplasts be found in? \_\_\_\_\_

6. Why is it important that cell membranes are selectively permeable? \_\_\_\_\_