

## Ch6 Cell Structure Review

1. Complete the following chart comparing prokaryotic and eukaryotic cells

Characteristics	Prokaryotic Cells	Eukaryotic Cells
Plasma membrane		
Cytosol with organelles		
Nucleus		
Ribosomes		
Size		

2. What are the uses of light microscopes versus electron microscopes?
3. What is cell fractionation? How is it beneficial for studying cells?
4. What organelles make up the endomembrane system of the cell?
5. Describe the structure of the nucleus and its contents. What are their functions?
6. What are the 2 types of ribosomes and what are their functions?
7. Describe the structure of the endoplasmic reticulum. What are the 2 types of ER and what are their functions?
8. Describe the structure of the golgi apparatus. What is the function?
9. Describe the structure of the lysosome and the peroxisome. What are their functions?

10. What are the 3 types and their functions? Describe the structure of the vacuole in plants?
  
  
  
  
  
  
  
  
  
  
11. Describe the structure of the mitochondria and the plastid chloroplast. What are their functions? Why do scientists believe that they were once free living bacteria?
  
  
  
  
  
  
  
  
  
  
12. What are the 3 types of cytoskeleton? What are their main functions?
  
  
  
  
  
  
  
  
  
  
13. Describe the structure of the centriole.
  
  
  
  
  
  
  
  
  
  
14. Describe the structure of the cell wall. What is its function?
  
  
  
  
  
  
  
  
  
  
15. What is the extracellular matrix and what is its function?
  
  
  
  
  
  
  
  
  
  
16. Describe the 3 types of cell junctions found in animals cells and the 1 type in plant cells.