

## Cell and Function Study Guide

1. Define cell.
2. What are major structures within a cell called that perform life functions?
3. List the 8 organelles and their functions, as well as, which cell they can be found in, in the table below.

Organelle	Function	Plant, Animal, or Both

4. What are the four types of cells?
5. What is diffusion and where in a cell does it happen?
6. What is osmosis and where in a cell does it happen?
7. What is another term that can be used for the mitochondria?
8. What do prokaryotic cells lack?
9. Are bacteria classified as prokaryotic or eukaryotic?

10. What does is mean for a cell to be unicellular?
11. Organelles are embedded into cytoplasm. What does embedded mean?
12. What two organelles do plant cells contain that animal cells do not?
13. Protists are grouped by their locomotion, what does locomotion mean?
14. What are the five organelles that plant and animal cells have in common?
15. What is the difference between the vacuole in a plant cell vs. an animal cell?
16. Why would a plant cell need chloroplast?
17. Why DOESNT an animal cell need chloroplast?
18. What are the four cellular processes?
19. Complete the chart about Bacteria below:

Bacteria Name	Shape of Bacteria	Drawing

20. Complete the chart about protist below:

Protist Name	How it moves (locomotion)	Drawing

On the images below label: plant or animal, mitochondria, cell wall, cell membrane, lysosome, cytoplasm, chloroplast, vacuole, nucleus (remember only one of them will have all 8!)

