

Week #8 Quest Study Guide

1. What is a Cell and who named it first?
2. What are the three rules of Cell Theory?
3. How are living things organized?
4. What is the difference between a prokaryotic cell and a eukaryotic cell?
5. What kingdom(s) is(are) each cell type in?
6. What are the four parts that **EVERY** cell has in common?
7. What is an organelle?
8. Draw a prokaryotic cell and label all six parts
9. Draw an animal cell and label all 10 parts – Separate Sheet of Paper
10. Draw a plant cell and label all 10 parts – Separate Sheet of Paper
11. Define the job of each of these organelles:
 - a. Cell membrane
 - b. Cell wall
 - c. Cytoplasm
 - d. Ribosomes
 - e. Nucleoid
 - f. Nucleus
 - g. Nuclear Membrane
 - h. Lysosome

- i. Mitochondria
- j. Endoplasmic Reticulum
- k. Microtubules
- l. Chloroplast
- m. Vacuole

12. How do SMALL particles move in/out of a cell?

13. How do LARGE particles move in/out of a cell?

14. Describe the difference between active and passive transport

15. What is the difference between osmosis and diffusion?

16. Draw the three steps of endocytosis

17. Draw the three steps of exocytosis

18. What are the three ways that a cell could obtain energy? Write the equation for each

19. What are the six steps of Eukaryotic Cell Division (Mitosis) HINT: I Picked My Apples Today Cheerfully