**CHAPTER 7: CELLULAR STRUCTURE AND FUNCTION RFC #3**

\* Read the following questions, **THEN** read from Chapter 7 p. 191- 194 **THEN** answer the following questions on your own paper in complete sentences. ***ANSWERS ARE NOT IN ORDER, YOU MUST READ FIRST!***

1. After reading the Real World Reading Link on p. 191, what does the book compare an eukaryotic cell to and why?
2. Compare and contrast the nuclear envelope and the cell membrane.
3. What do membrane bound organelles make possible in eukaryotic cells?
4. Contrast the location of where all chemical processes occur inside a prokaryotic cell vs. an eukaryotic cell.
5. What is it important that the ER has pleats and folds?
6. Create a list of essential cell processes carried out inside of organelles in a eukaryotic cell.
7. Explain how the cytoskeleton helps support organelles. What other functions does the cytoskeleton perform?
8. **TYPE II:** COMPARE AND CONTRAST microtubules and microfilaments in a minimum of 5 sentences. **Underline** at least one comparison and **circle** the contrasting arguments.
9. What is chromatin and where is it located?
10. What is cytoplasm?
11. **Type II**: In a minimum of 5 sentences compare and contrast the rough ER and the smooth ER.
12. What is the role of the nucleus?
13. What is inside the nucleus and what is its function?
14. What allows cells and organelles to move?
15. What is the function of ribosomes?
16. What is the MAIN Idea of section 3?
17. **Type II**: In a minimum of 5 sentences describe where ribosomes exist after they are produced and how do the proteins they create differ.
18. Where are ribosomes made and what are there two components?
19. Create a Venn diagram showing which cell structures are found only in plant cells, only in animal cells, and which are found only in prokaryotic cells, and which are found in all three.