**STUDY GUIDE FOR CELLS AND CELL TRANSPORT TEST:**

1. **Study the parts of the Animal Cell and Plant Cell: (color diagram & drawing diagram)**
2. **Study the cell organelles function chart:**
3. **What are the 3 parts of the Cell Theory?**
4. **Which scientist named the cell?**
5. **Which scientist discovered pond microorganisms and is known as the “Father of Microbiology”?**
6. **What are the levels of organization in multicellular organisms starting with cell?**
7. **What is the difference between prokaryotes and eukaryotes (study venn diagram)**
8. **What is the difference between Animal cells and Plant cells (study venn diagram)**
9. **Study the microscope drawings of the cheek cell and onion cell:**
10. What is another name for the cell membrane?
11. Where is the cell membrane located and what is it’s function in the cell?
12. What is the structure of the cell membrane? (label the diagram)
13. What does Fluid Mosaic Motion mean?
14. Why is the cell membrane considered semi-permeable?
15. What does Homeostasis mean and how is the cell membrane responsible for it?
16. What are the parts of a phospholipid? ( label areas:Hydrophilic, Hydrophobic, polar, nonpolar)
17. What is Diffusion?
18. What term is used for the direction of the molecule movement during diffusion?
19. What is the difference between Passive transport and Active transport?
20. What are 2 examples of Passive transport and 3 examples of Active transport?
21. What is Facilitated diffusion?
22. What is Osmosis?
23. What are 3 types of solutions that affect osmosis and describe them?
24. What happens to a cell in each of the following solution and why? (Isotonic, Hypertonic, Hypotonic)
25. What energy molecule is used in Active transport?
26. What is the difference between Endocytosis and Exocytosis (what does the membrane form for each)?
27. What are the 7 properties of all Living things?