**Chpt 2 STUDY GUIDE**

**ANSWERS DUE: Monday 9/26/16 (in your notebook)**

**View Tutorials on our Biology website**

Guiding topics:

* MACROMOLECULES
* PROPERTIES OF WATER
* CHEMICAL REACTIONS & ENZYMES
1. Name the 4 Macromolecules.
2. What distinguishes (elements) each Macromolecule? ex: CHO = Carbohydrate
3. What common properties do they share? (use your attribute grid)
4. Draw a picture of each macromolecule
5. Provide an example of a chemical reaction. Label the components of the reaction.
6. What is activation energy?
7. Exothermic?
8. Endothermic?
9. Define Enzyme
10. How does an enzyme affect a chemical reaction?
11. Define optimal
12. How do Temperature, PH, and Substrate concentration affect an enzyme?
13. Draw a graph that includes a normal reaction and the enzyme reaction.
14. What are the properties of water?
15. Describe cohesion.
16. Describe Adhesion.
17. What is a solvent?
18. Solute?
19. Draw and label a pH scale.
20. What is responsible for water’s cool properties?
21. How does water enable homeostasis in the human body?