**Honors Bio Unit 1 Test Review- Some ‘tips’**

1. Be sure to study ENZYMES.
   1. What is an enzyme?
   2. Type of molecule?
   3. Are they recyclable?
   4. Are they specific with their substrate(s)?
   5. How do they affect activation energy of a reaction?
   6. Draw a graph showing how they affect activation energy.
   7. Draw a diagram showing how an enzyme acts on a substrate.
   8. Give 3 ways enzymes can become denatured.
2. Know properties of WATER. Explain:
   1. Cohesion
   2. Adhesion
   3. High Specific Heat (water can absorb a lot of energy and not change much in temperature)
   4. High surface tension
   5. Evaporation and Condensation
3. What makes water POLAR (hydrophilic)?
4. Explain: HYDROGEN BOND
5. Why is water a good solvent?
6. What is a SOLUTION? Use the terms solvent and solute in your answer
7. Describe a COVALENT BOND
8. Write any chemical reaction. Where are the REACTANTS? PRODUCTS? Why must it be balanced?
9. Define HOMEOSTASIS.
10. Go over the SCIENTIFIC METHOD. Know: independent variable, dependent, control. Which axis is independent variable on? Dependent?
11. Study the FOUR TYPES of MACROMOLECULES. Hopefully, you made a good chart from the homework WS! There are 8-10 questions. The PPt is on my blog.
12. What is an ION?
13. What is a POLYMER made up of?
14. Know an ACID from a BASE on the pH scale. [Remember: acids have H+ (hydronium) and bases have hydroxide]
15. There will be several graphs you will have to interpret.
16. There are some review sites with online questions. The link is posted on my blog under Unit 1.