Chapter 2 Sketch Notes

- 1. Sketch/List the 4 most common essential elements.
- 2. How can an element be essential, but also a trace element? Give an example.
- 3. Compare and contrast the atomic # and mass #.
- 4. Sketch/Describe the types of bonds.
 - a. Covalent.
 - b. Ionic
 - c. Hydrogen Bonds
 - d. Van der Waals interactions
- 5. Compare and contrast polar and nonpolar molecules.
- 6. Sketch/Describe the importance of molecular shape.
- 7. What is the photosynthesis reaction? Label reactants, products, reaction and coefficients.

Chapter 3 Sketch Notes

- 1. Describe and draw the water molecule.
- 2. Sketch/Describe the 4 emergent properties of water.
- 3. Describe/Sketch: adhesion, cohesion, surface tension, specific heat, heat of vaporization/evaporative cooling.
- 4. Describe/Sketch: Density of water versus temperature.
- 5. Sketch water is a universal solvent.
- 6. Sketch/Describe: hydrophobic v. hydrophilic and provide examples.