**Study Guide for Water/Carbohydrate Quiz**

1. What is the chemical formula for water? Draw its structure.
2. Describe why water is a polar molecule and discuss hydrogen bonding. DRAW IT
3. What is the difference between cohesion and adhesion? Give examples of each.
4. Explain the difference between solutions and suspensions. In a solution, which substance is the solute and which is the solvent?
5. Describe the pH of acids, water, and bases. Give examples of each.
6. What is a buffer and why are they important for living things?
7. How many bonds can carbon form? Are they ionic or covalent bonds?
8. What is the difference between a monomer and polymer?
9. What types of atoms (elements) are in carbohydrates?
10. What is the difference between monosaccharides and polysaccharides? Which acts as a monomer?
11. List the 3 polysaccharides in your notes AND describe their function.
12. What is the function of glucose? Is it a monosaccharide or polysaccharide?
13. Draw glucose.