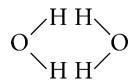
Water and Life Review

Chapter 3

- 1. Describe the effect of electronegativity on the interactions between water molecules.
- 2. Explain why two water molecules would not be expected to be arranged as in the diagram below.



- 3. Describe the effect on the properties of the water molecule if oxygen and hydrogen had equal electronegativity.
- 4. Describe how the properties of water contribute to the upward movement of water in a tree.
- 5. When talking about the weather, people often say things like "It's a dry heat," or "It's not the heat; it's the humidity." Explain how the moisture in the air might affect our perception of temperature.
- 6. Explain why the environment near a large body of water tends to have a more stable temperature than that of an inland area.
- 7. Explain why the legs of the water strider (an insect that can walk on water) are coated with a hydrophobic substance. Describe the result if the substance were hydrophilic.
- 8. Describe the characteristics of a protein that has both hydrophobic and hydrophilic regions.