

Chemistry I

Worksheet—Water Week
Properties of Water

Name _____

Period _____

1. a. Draw the structure of water. Include the partial charges of each atom.

b. Why is water considered to be a polar molecule?
2. a. What enables neighboring water molecules to hydrogen-bond to one another?

b. How many hydrogen bonds can each water molecule form?
3. a. Explain the difference between adhesion and cohesion. Give an example of each.

b. How do adhesion and cohesion explain capillary action?
4. What is surface tension? Give an example.
5. a. What is specific heat? Why

b. Explain why water has such a high specific heat.

c. Explain why it is cooler by the lake (or any body of water) in the summer and warmer by the lake in the winter.