| Name | Class | Date |
|------------------|-------|------|
| Assessment | | |
| States of Matter | | |

Section Quiz: Water

In the space provided, write the letter of the term or phrase that best completes each statement or answers each question.

1. What is the approximate angle between two hydrogen-oxygen bonds in water? a. 90° **b.** 102° c. 105° **d.** 120° **2.** The bond between oxygen and hydrogen in a water molecule is a. ionic. **b.** hydrogen. c. polar-covalent. d. dipole-dipole. **3.** The molecular geometry of a water molecule is a. linear. **b.** bent. c. trigonal planar. d. triangular. 4. Liquid water forms molecular groups. How many molecules of water are there in each group? a. one to two **b.** two to four c. three to six d. four to eight **5.** If water molecules were not linked by hydrogen bonds to form groups in liquid water, what would be the physical state of water at room temperature? a. solid b. liquid

d. a mixture of liquid and gas

| Name _ | | Class | Date |
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| Secti | on Quiz, continued | | Togeth Togeth |
| 2676 | 6. What is the reason for a. empty spaces betw b. the high number of c. the small size of hy d. the low molar mas | veen molecules f hydrogen bonds ydrogen and oxygen | |
| debe | 7. Compared with nonpowater's molar enthalp a. higher. b. lower. c. similar. d. equal. | | omparable molecular mass, |
| 71 | 8. Water's relatively high a. covalent bonding. b. hydrogen bonding. c. ionic bonding. d. London forces. | gendayî het. Hajiyakî i | result of |
| | 9. The molar enthalpy o a. equal to the enthal b. approximately the c. larger than the ent d. smaller than the en | py of many other sol same as the enthalp; halpy of many other | y of many other solids. solids. |
| 19/107 | _10. Compared with the becomparable molar material at a transfer a. higher. b. lower. c. equal. d. approximately the | ass at 1 atm, the boil | |