

**CHAPTER 2****HANDOUT****Water Question and Answer  
Activity****BLM 2.1.5**

For each of the following statements, circle True if you feel it is correct, and False if you believe it is incorrect. For each one that is false, write a correct statement in the space provided.

1. Hydrogen bonding enables water to dissolve a wide variety of substances. True or False  
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2. Liquid water is less dense than ice because hydrogen bonds hold molecules apart in an open crystalline structure in this phase. True or False  
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3. Water is most dense at 0 °C. True or False  
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4. Cohesion refers to the attraction water molecules have for each other. Adhesion refers to the attraction water molecules have for molecules of other substances. True or False  
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5. Water has a low heat capacity and thus requires large amounts of heat to effect a small change in temperature. True or False  
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6. A hydrogen bond occurs between two hydrogen atoms on the same water molecule. True or False  
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7. Metabolic water is generated by metabolic reactions. True or False  
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8. Drought decreases plant productivity because plants close their stomata to reduce water loss and can no longer take in carbon dioxide. True or False  
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9. The hydrologic cycle does not play a role in biogeochemical cycles. True or False  
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10. Unlike carbon dioxide, water vapour is not a greenhouse gas. True or False  
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