Lesson 3.01 Practice Text Only Version

Question 1: Property of water that allows it to "stick" to other surfaces
Answer 1: Adhesion
Feedback: The property of adhesion allows the negative ends of the water molecule to be attracted the positive parts of the other surface.

Question 2: The amount of heat that it takes to raise the temperature of 1 gram of water by 1 degree Celsius
Answer 2: Specific Heat
Feedback: Water has a high specific heat which means that it can absorb a great deal of heat without changing its temperature.

Question 3: The property of water that allows small objects to float on the top of the water
Answer 3: Surface Tension
Feedback: The cohesive forces of water are greater at the surface/top of the water creating surface tension.

Question 4: Allows water to move into the roots of a plant and up its stem
Answer 4: Capillary Action
Feedback: Capillary action is created by the cohesive and adhesive properties of water.
Incorrect Feedback

Question 5: Allows water molecules to "stick" together and form water drops
Answer 5: Cohesion
Feedback: The cohesive property of water is created by the water molecule having a charged ends—positive toward the hydrogen end and negative towards the oxygen end.

Question 6: Bond in which electrons are shared between two or more atoms
Answer 6: Covalent Bond
Feedback: Water molecules are held together by covalent bonds between 2 hydrogen atoms and 1 oxygen atom.

Question 7: Used to describe water because of its ability to dissolve many different substances
Answer: Universal Solvent
Feedback: Water can dissolve many different types of substances because of its polarity (having positive and negative ends). Compounds such as salt—NaCl—have positive and negative particles that are pulled apart by the polar ends of water, causing the substances to break apart and dissolve.

Question 8: Occurs when two surfaces slide across one another producing heat
Answer: Friction
Feedback: Friction is the reason that many plants and factories use water to cool their equipment.