

Name: _____ Period: _____

Properties of Water Worksheet

Word Bank:

covalent	solvent	deposition	dissolve	cohesion	surface	cooler	universal
tension	polar	viscosity	condensation	negatively	adhesion	positively	sublimation

1. The hydrogen and oxygen atoms are held together by covalent bonds.
2. The electrons are not shared equally creating a polar molecule.
3. The polarity of water allows it to dissolve most substances. Because of this it is referred to as the universal solvent.
4. Water molecules stick to other water molecules. This property is called cohesion.
5. Hydrogen bonds form between adjacent water molecules because the positively charged hydrogen end of one water molecule attracts the negatively charged oxygen end of another water molecule.
6. Water molecules stick to other materials due to its polar nature. This property is called adhesion.
7. surface tension creates the skin-like surface formed due to the polar nature of water.
8. viscosity is the tendency for fluids to resist flow.
cooler water is more viscous than warmer water, allowing floating organisms to use less energy to keep from sinking.
9. condensation is when water changes from a gas to a liquid.
10. sublimation is when water changes from a solid directly to a gas.
11. deposition is when water changes from a gas directly to a solid.
12. Why does ice float?

water is less dense in solid form because hydrogen bonding between water molecules pushed molecules further apart into a set crystalline pattern

13. List the properties that ocean water has due to the fact that it contains salt.

higher density
conductivity
decreased surface tension

171 Liquid Water And Its Properties Section Review Answers

RJ Shavelson



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