Properties of Water Vocabulary Review

Match the property of water to correct description then answer the questions 13 -23, using complete sentences.

1. POLARITY
2. HYDROGEN BOND
3. ATOMIC STRUCTURE
4. COHESION
5. UNIVERSAL SOLVENT
6. ADHESION
7. HIGH HEAT OF VAPORIZATION
8. SURFACE TENSION
9. HIGH SPECIFIC HEAT
10. LOW DENSITY WHEN SOLID
11. EXISTS IN ALL 3 STATES
12. DISSOCIATES INTO ACIDS AND BASES

13. Which atoms make up a water molecule?

14. What holds the atoms in a water molecule together?

15. Water exists in three forms: \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_, and\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

16. How does temperature affect water?

17. Explain cohesion.

18. Give an example of cohesion.

19. Explain adhesion.

20. Give an example of adhesion.

21. Water molecules move from a plant’s roots to its leaves. How?

22. Why don’t some insect such as water striders sink?

23. Why doesn’t ice sink?

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1. 2 atoms of Hydrogen connected to 1 atom of Oxygen via POLAR COVALENT BONDS
2. Water is attracted to molecules other than water
3. Water resists evaporation b/c lots of H bonds must be broken to transition from a liquid to a gas
4. Water is attracted to other molecules of water
5. Water molecules can be split into H+ and OH- ions to form acids and bases
6. An uneven distribution of electrons causing one end to carry a (-) charge & the other a (+) charge
7. Ice floats because water is less dense as a solid than a liquid
8. Ability of water to absorb a lot of heat; i.e. why it takes water so long to boil
9. “Skin” which forms on top of water because of Cohesion and Hydrogen Bonding
10. Ability to dissolve almost anything quickly or over time
11. Water can be a solid, liquid, or a gas
12. Bonds which can form between two molecules of water