A 1.1 Water MC

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1. What type of bond holds the hydrogen and oxygen atoms together within a water molecule
A) Ionic bond B) Covalent bond C) Hydrogen bond D) Metallic bond
2. How many atoms of hydrogen are present in a single water molecule?
A) 1 B) 2 C) 3 D) 4
3. The polarity of a water molecule is due to:
A) Equal sharing of electronsB) Unequal sharing of electronsC) Hydrogen atoms having a positive chargeD) Oxygen atom being smaller and negatively charged
4. What type of bond forms between water molecules?
A) Covalent bond B) Ionic bond C) Hydrogen bond D) Metallic bond
5. The movement of water molecules through the xylem is aided by:
A) AdhesionB) CohesionC) Both cohesion and adhesionD) Neither cohesion nor adhesion
6. What is the name of the effect that allows insects to travel across the top of water?
A) Buoyancy B) Surface tension C) Capillary action D) Evaporation
7. Which property explains why water rises in narrow tubes against gravity?
A) Diffusion B) Osmosis C) Capillary action

D) Surface tension

A) SolventB) BufferC) CatalystD) Reactant

8. Water's ability to dissolve ionic or polar molecules makes it an excellent:

9. Fats are not soluble in water because they are:	
A) PolarB) HydrophilicC) HydrophobicD) Ionic	
10. What term describes the water's interaction with other substances, such as a soil?	plant cell walls or
A) CohesionB) Capillary actionC) AdhesionD) Surface tension	
11. In plants, water moves through the xylem due to:	
A) GravityB) Adhesion and cohesionC) Capillary action onlyD) Pressure differences	
12. Which of the following organisms can float on water due to its low viscosity?	•
A) Ringed sealB) Black-throated loonC) Both A and BD) Neither A nor B	
13. Capillary action is strongest in:	
A) Clay B) Sand C) Gravel D) Water	
14. Water has relatively low, allowing certain animals to swim easily	y through it.
A) Surface tensionB) ViscosityC) DensityD) Solubility	
15. Which of the following describes water's ability to support aquatic life?	
A) High viscosityB) Low surface tensionC) Low viscosityD) High density	

Answers:

- 1. B) Covalent bond
- 2. B) 2
- 3. B) Unequal sharing of electrons
- 4. C) Hydrogen bond
- 5. C) Both cohesion and adhesion
- 6. B) Surface tension
- 7. C) Capillary action
- 8. A) Solvent
- 9. C) Hydrophobic
- 10. C) Adhesion
- 11. B) Adhesion and cohesion
- 12. C) Both A and B
- 13. A) Clay
- 14. B) Viscosity
- 15. C) Low viscosity