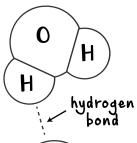
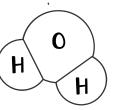
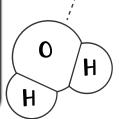
Water molecules are very polar:

- The oxygen atom attracts its shared electrons strongly, so the oxygen atom has a slightly _____ charge.
- The hydrogen has a slightly _____ charge.
- This makes them "stick" to each other with a strong attraction called







Name:

Water has a high specific heat:

- High specific heat means it takes _____ of energy to change a body of water's
- Aquatic life can live without rapid/deadly changes in

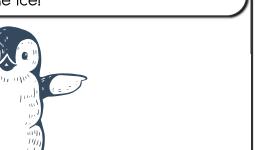




Proportios of Water

<u>Ice is less dense than water:</u>

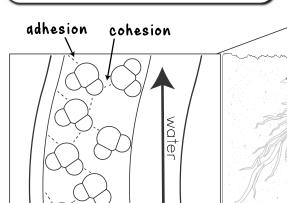
- Ice forms at the ______ because of the cold air. Aquatic organisms that live underneath the ice in the water are
 - ____from extreme cold by the ice.
- This also allows for some animals to live on top of the ice!





Capillary Action:

- Water moves up _____ tubes within plants!
- Water is drawn up the tube,against ______, by theforces of _____ and



O Bethany Lau

Water is a terrific solvent: Water has a strong surface tension: Molecules at the surface hold _____ Many ions and polar molecules necessary for life _____ in water. to each other than molecules further under • Water is great for carrying these ions the surface. and molecules within ____ or ____ • Some life depends on being able to float _ between different body tissues. on top of the surface. • This is also why water can bead up into droplets on glass surfaces. important for Life Water has a relatively high boiling point and heat of vaporization for a small hydride molecule: • It takes a lot of heat energy for water molecules to leave their _____, held together by Is there water on other <u>planets?</u> • Because water does not boil at a lower temperature, • Many _____ in our solar most water on the planet is found in the form of ____ system have evidence of ice which is essential for life! and perhaps liquid water is • Surface water molecules can evaporate when underneath. individually they gain enough _____ to break free • Scientists believe from the _____ of the molecules around them. is a enough heat requirement for life to exist, energy surface which is why we keep looking molecule for it! Most planets are _____ or _____ for liquid water to exist.

O Bethany Lau