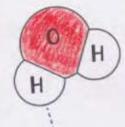
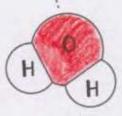
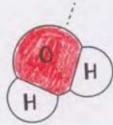


The oxygen atoms attract shared electrons strong, so the oxygen atom has a slightly regalive charge. The hydrogen has a slightly positive charge charge

"This makes them "Stick" to each other with a strong attraction called a hydrogen bond,





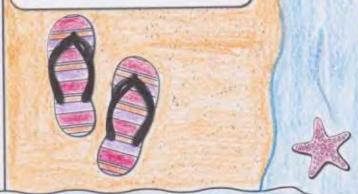


Name:

Water has a high specific heat:

·High specific heat means it takes a Lot of energy to change a body of waters temperature

*Aquatic life can live without rapid/deadly changes in temperature

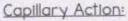


Properties of Water

Ice is less dense than water:

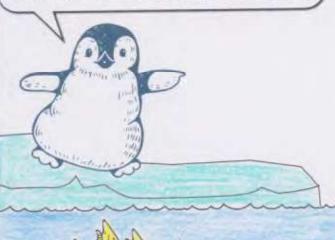
·Ice forms at the top because of the cold air. Aquatic organisms that live underneath the ice in the water are insulated from extreme cold by the ice

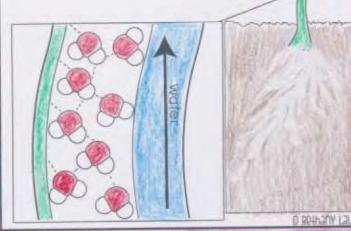
·this also allows for some animals to live on top of the ice



·water moves up thin tubes within plants!

water is drawn up the tube, against gravity, by the forces of cohesion and adhesion.

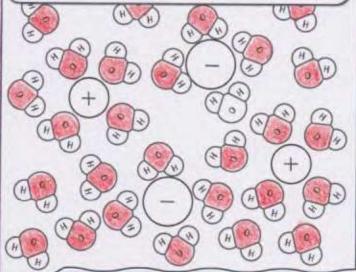




Water is a terrific solvent:

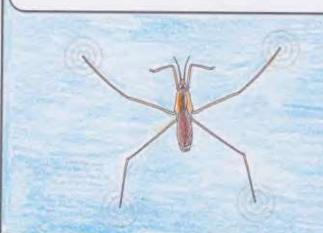
many ions and polar molecules necessary for life can dissolve in H₂0

water is great for carrying these ions and molecules within cells or blood vessels between different body tissues.



Water has a strong surface tension:

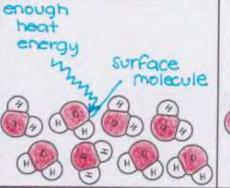
*Molecules at the surface hold more tightly to each other than molecules further under the surface some life depends on being able to float on top of the surface this is also why water can bead up into droplets on a surface

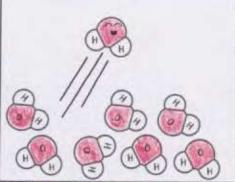


Important for Life

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 liquid form, held together by hydrogen bonds
- *Because water does not boil at a lower temperature, most water on the planet is found in the form of liquid, which is essential for life!
- *Surface molecules of water can evaporate who individually they gain enough energy to break free from the hydrogen bonds of the molecules around them.







Is there water on other planets?

- -many moons in our solar system have evidence of ice and perhaps liquid water is underneath
- *Scientists believe liquid water is a requirement for life to exist which is why we keep looking for it!
- tmost planets are too hot or too cold for liquid water to exist.

@ gethany Lau