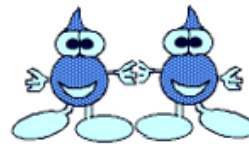


Exhibit 1

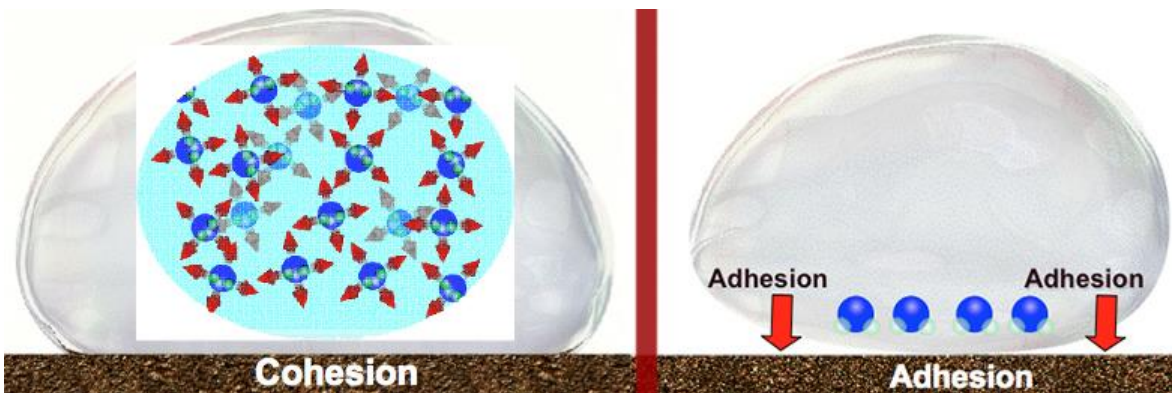


Cohesion



Adhesion

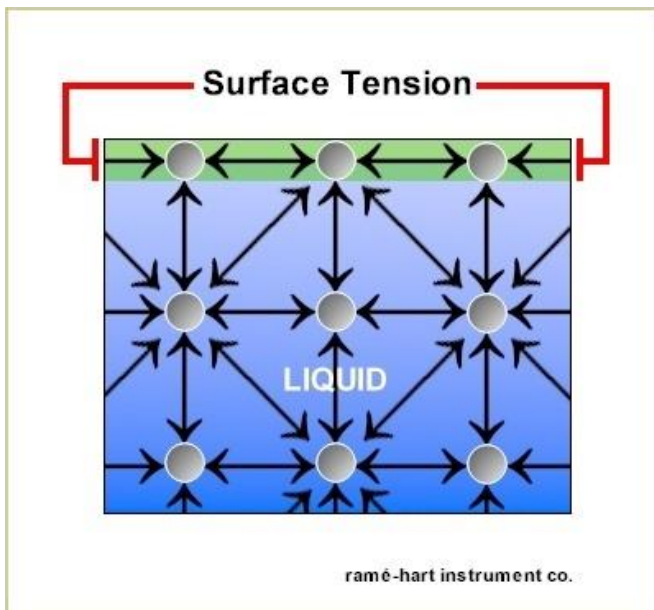
Water is able to... stick to itself and stick to other substances



This is important to life because... water can form droplets, stick to plants, and soak into the ground.

Exhibit 2

Water is able to... form a “skin” on its surface.

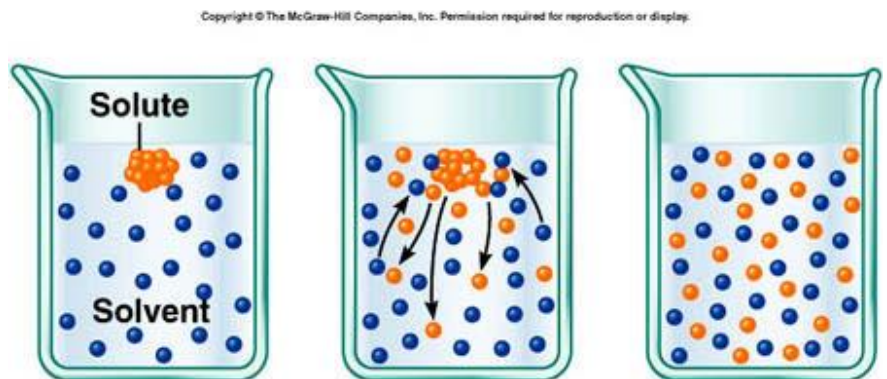
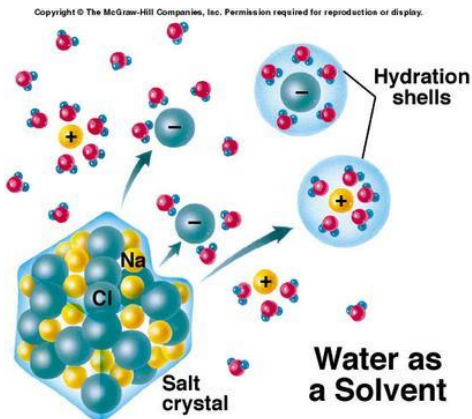


This is important to life because... small organisms (bugs) can walk on water's surface

Exhibit 3

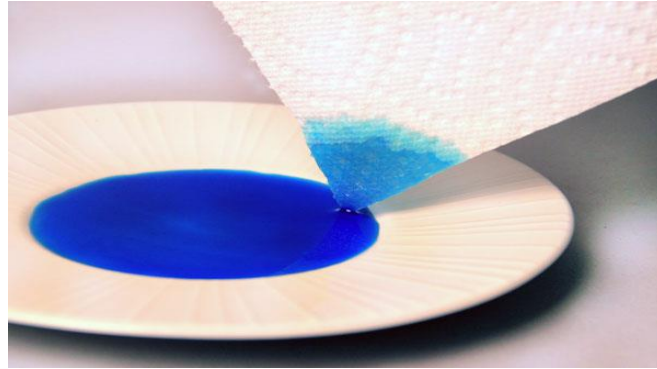


Water is able to... dissolve most substances, including carbohydrates, proteins, and nucleic acids

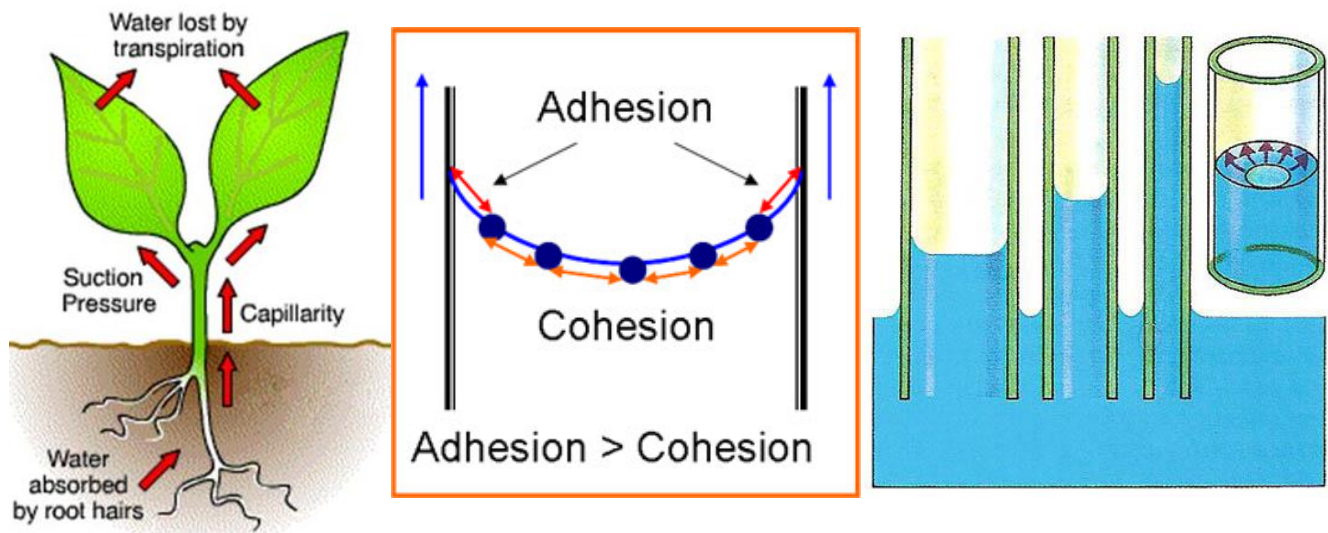


This is important to life because... chemical reactions in living things can occur much faster

Exhibit 4



Water is able to... flow in narrow spaces without the assistance of outside forces.

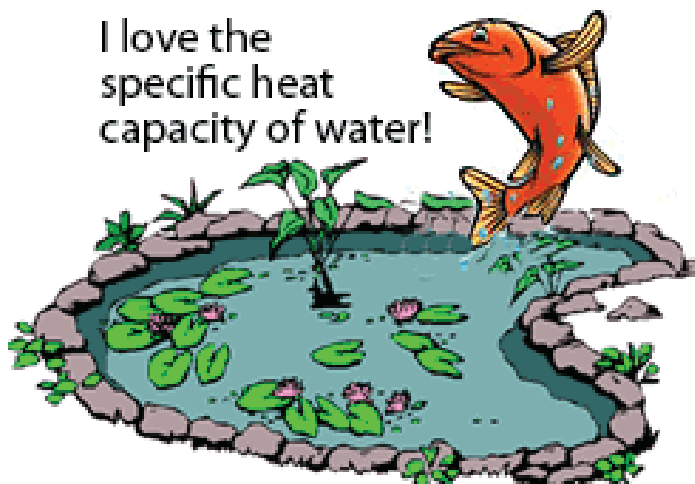


This is important to life because... plants can “pull” water up from the roots to the rest of the plant

Exhibit 5



Water is able to... absorb or lose a lot of heat energy without changing temperature



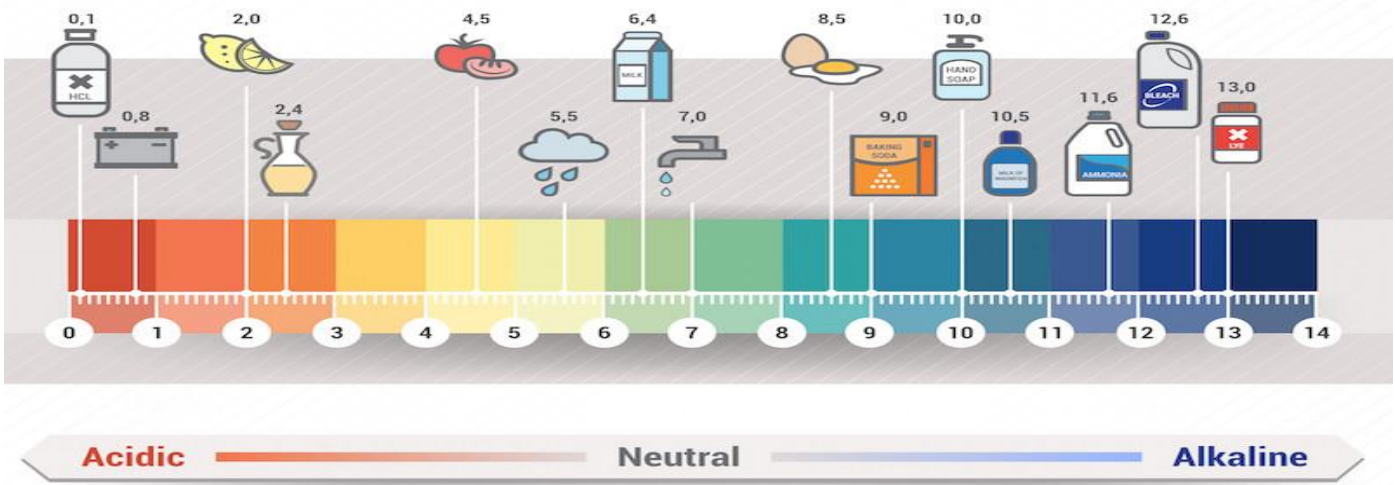
This is important to life because...

- Keeps body temp. constant
- Evaporating perspiration (sweat) takes heat away from our skin to cool us down
- Ponds and lakes don't heat up much on sunny days, protecting aquatic organisms

Exhibit 6



Water is able to... have a neutral pH level of 7

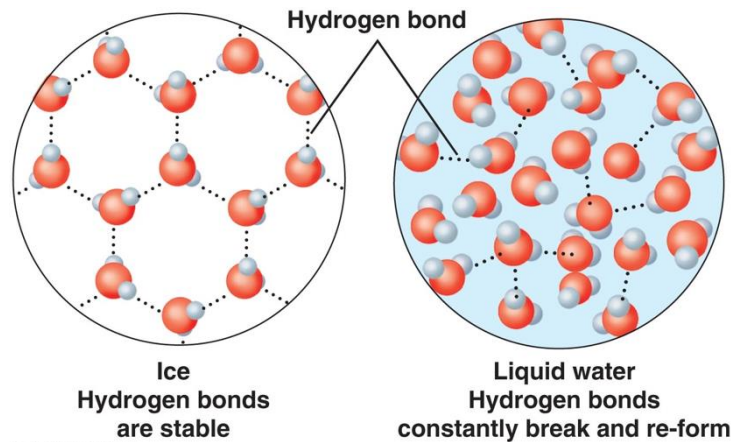


This is important to life because... most organisms' bodies are close to neutral (pH 6-8)

Exhibit 7



Water is able to... expand and float when it freezes as ice



This is important to life because...

- Prevents lakes and ponds from freezing solid
- Protects aquatic organisms in freezing temperatures
- The molecules in ice expand, which can break pipes, concrete, and even rocks (weathering)