



Surface Tension

Surface tension is the tension (_____ force) of the surface film on a liquid.

It is caused by the _____ of the molecules.

_____ has a very high surface tension.

Why is it important?

Bubbles

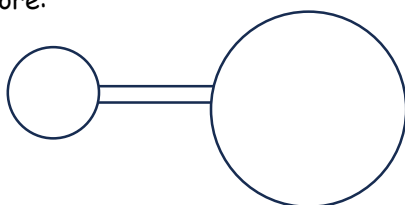
Soap creates bubbles because its molecules have a unique structure where one end is attracted to water (_____) and the other end repels water (_____).

The soap is flexible and stretchy. When it mixes with water, it reduces water's surface tension, allowing air to be blown into it to form a bubble.

Bubbles naturally form a _____ because it is the most efficient way to enclose a given volume of air, minimizing the surface area of the soap film.

LaPlace's Law

Before:



After:

On Your Own Labs

Fill small glass all the way full of water. slowly drop paper clips into water. Watch the surface of the water.

Float a piece of Kleenex on top of the water in a glass. Place a sewing needle on the Kleenex. What happens to the needle when the tissue sinks to the bottom of the glass?

Make a GIANT bubble maker. Search online for instructions.