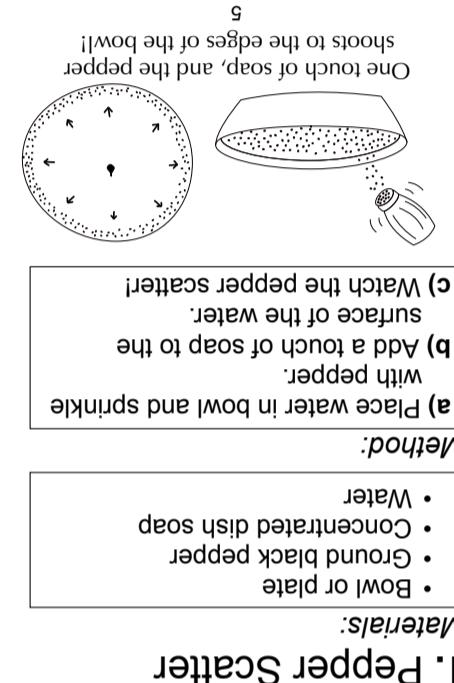
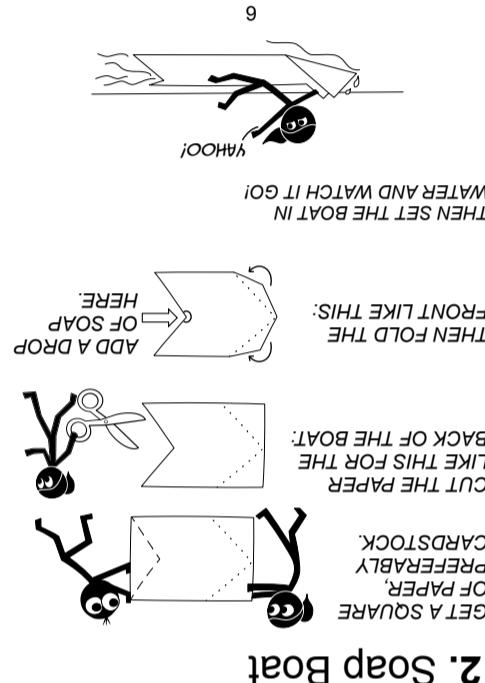


SCIENCE MOM'S Guide to WATER, Part 2



SCIENCE MOM
www.science.mom
www.youtube.com/ScienceMom



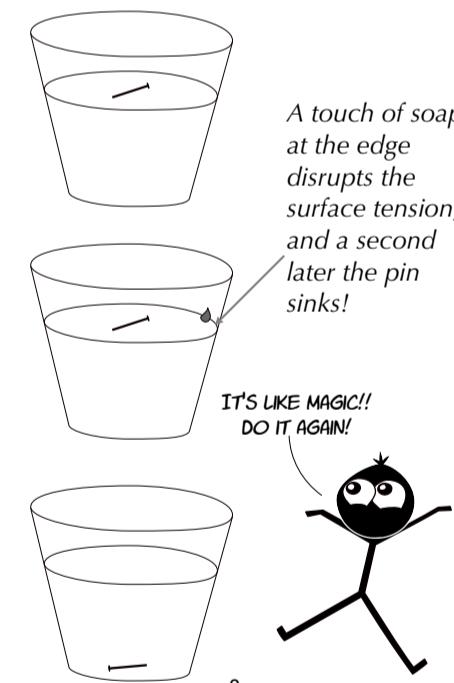
3. Floating Pin

Materials:

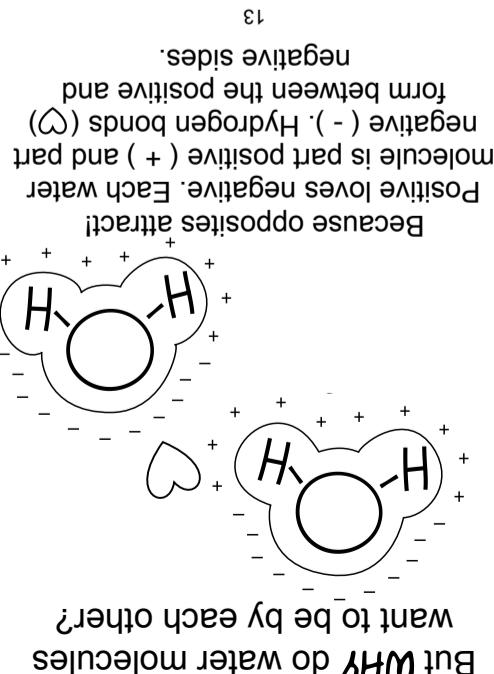
- A small pin or needle
- Bowl or cup
- Concentrated dish soap
- Water

Method:

- Fill bowl or cup with water and carefully place pin on surface. Hint: tweezers may help. The pin must be flat with the surface of the water. It will sink if it comes in at an angle.
- Add a touch of soap.
- Watch the pin sink!

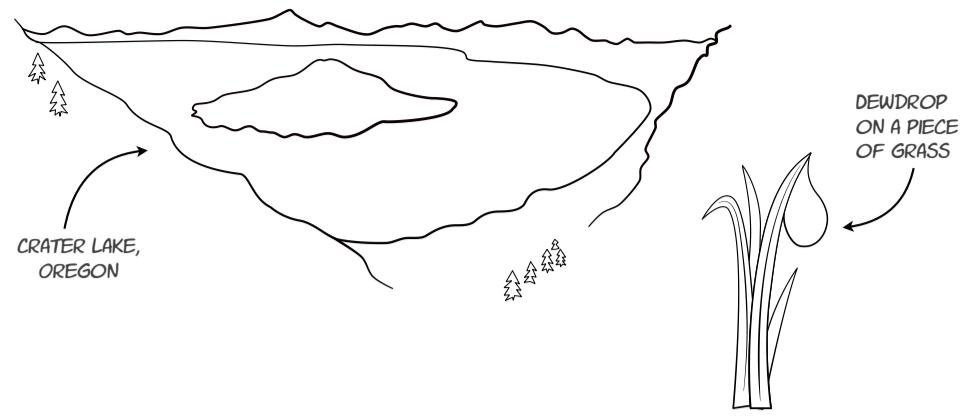


7



Want to be by each other?

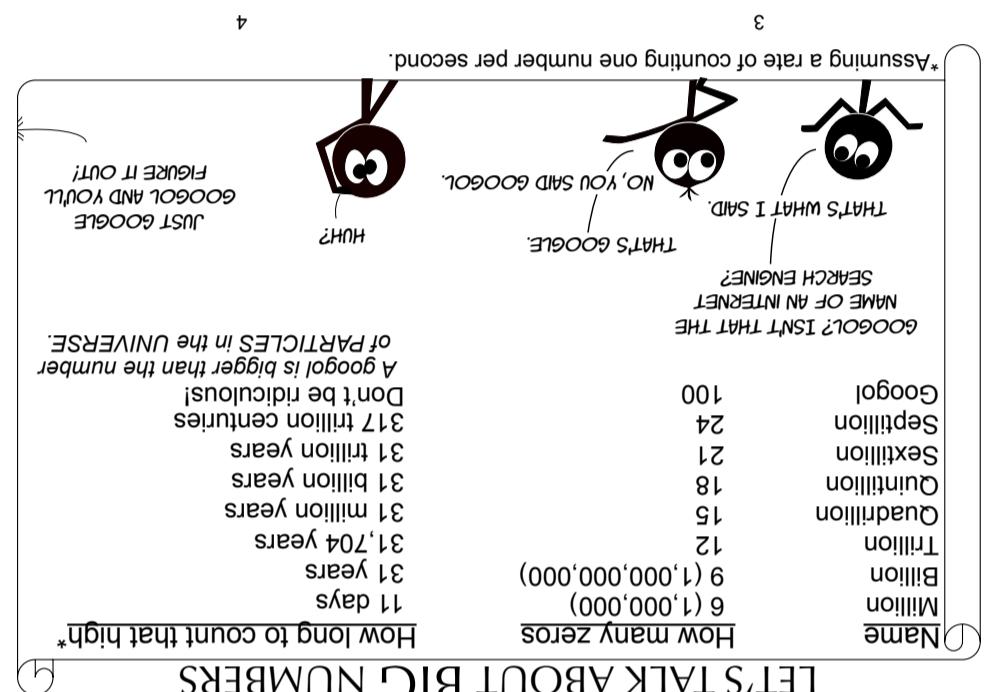
Think of a big lake versus a dewdrop. Pretty big difference in size, right?



The dewdrop is SUPER small compared to the lake. But a water molecule (the smallest bit of water you can have) is MUCH smaller than a dewdrop. A single drop of water has more than 1,000,000,000,000,000,000 water molecules! That huge number with 21 zeros is called a sextillion, and it is a TRILLION TIMES BIGGER than one billion.

1

2



4. Floating Paperclip

Materials:

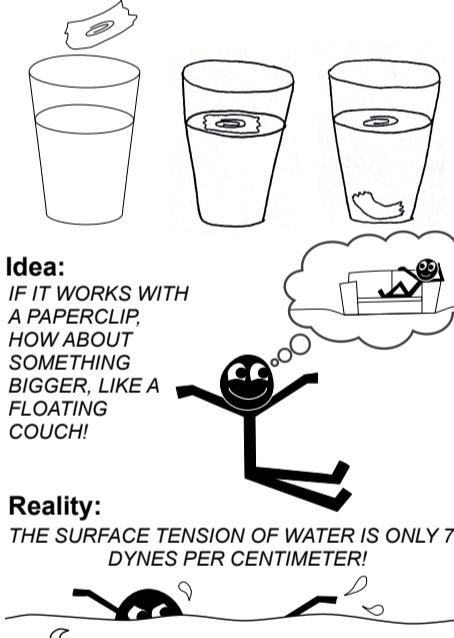
- Paper clip
- Tissue paper or paper towel
- Cup or bowl
- Water

Method:

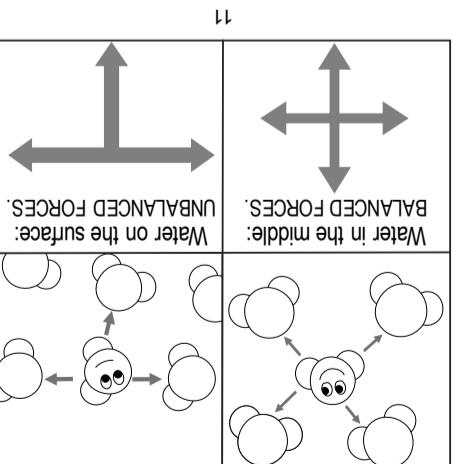
- Fill the cup with water and gently place a piece of tissue paper on the surface.
- Carefully place a dry paperclip on the tissue.
- The tissue should sink. If it doesn't, give it a gentle push downward.

Tip: be sure that the cup and water are not soapy.

8



9



Question: How many drops of water stay together and allows us to fill cups above the brim, which helps raindrops stay together and creates surface tension, creating a dome on the surface. Answer: A lot! The molecules on the surface pull in, creating a dome of water on a coin before the coin spills off the side.

Surface Tension.

B

A

A

X

B

C

C

D

F

E

E

D

E

G

G

X