

THE WATER'S MOVING FASTER! LOOKS LIKE WE'RE IN A RIVER!



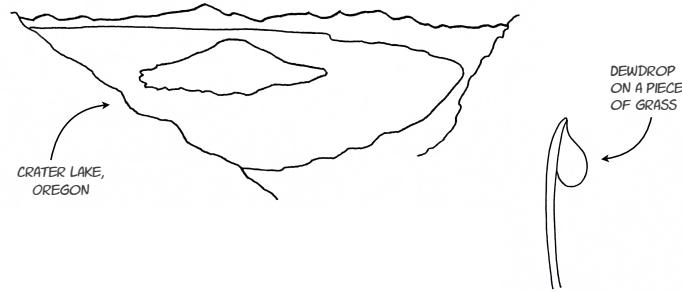
SCIENCE MOM

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SCIENCE MOM'S Guide to WATER, Part 2



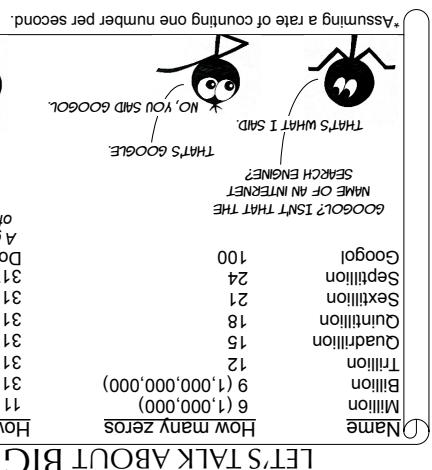
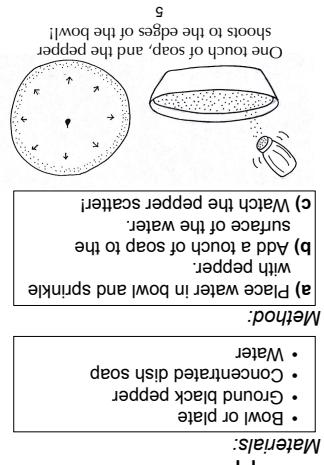
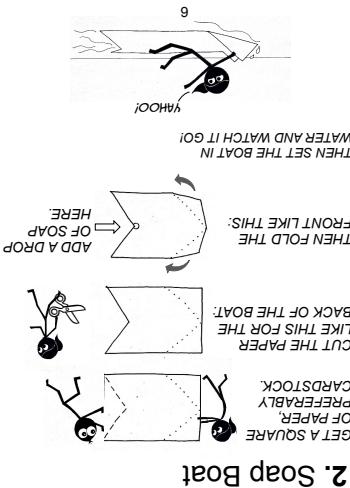
Think of a big lake versus a dewdrop. Pretty big difference in size, right?



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



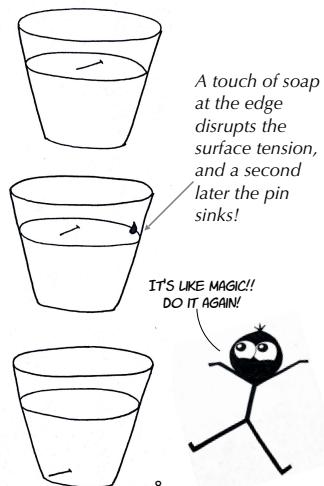
3. Floating Pin

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!



4. Floating Paperclip

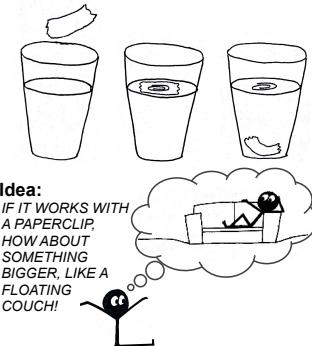
Materials:

- 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.

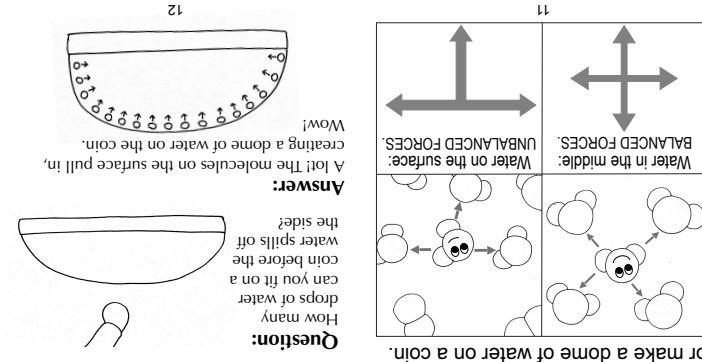
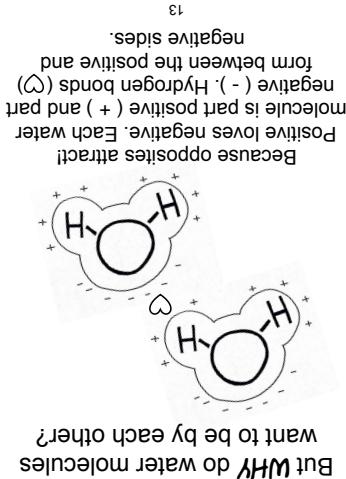
Tip: be sure that the cup and water are not soapy.



Reality:
THE SURFACE TENSION OF WATER IS ONLY 72 DYNES PER CENTIMETER!



7



HOW DOES IT WORK? SURFACE TENSION.

B

A

A

X

B

C

C

D

F

E

E

D

E

G

G

X