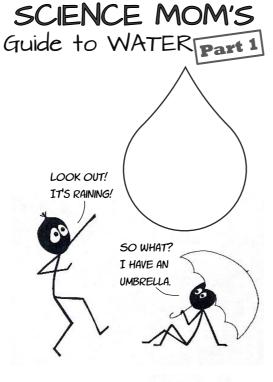
SEE? RAIN IS NO PROBLEM WHEN YOU HAVE AN UMBRELLA

Find more FREE Science Mom Guides at www.JennyBallif.com



OOK NKE KON; THE OPPOSITE PAGE TO COLOR THE SCIENTIST ON

> amazed! c) Remove hand and be .(nwob əbisqu INVERT the cup (Turn it b) Put hand on top of lid and place the lid on top. 9) Four water in the cup and

> > :роц;әм

cardstock or cardboard. Plastic lid, or a piece of Water

dno

Materials:

1. Gravity Defying Lid

Water is the only thing on our planet that exists naturally in all three states of matter—as a solid, liquid, and a gas.



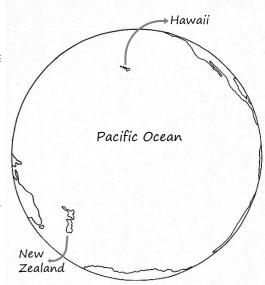
Gaseous water, or water vapor, is invisible. You can't see it, but it's in the air around you and we call it humidity. The more water vapor in the air, the more humid it is.

The only other things on earth that come close to existing in all three states of matter are mercury, acetic acid, and carbon dioxide. While all three states of matter are possible for each of these, they don't occur naturally. Water, on the other hand- it's everywhere.

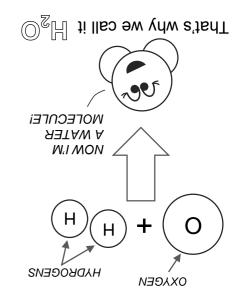
incredible properties.

learn more about waters'

Try these investigations to



Oceans cover most of the earth's surface, and about 70% of the planet is also covered by another form of water: clouds.



two hydrogens. It's one oxygen atom plus

WHAT EXACTLY IS WATER?

Gravity says

But then we'd have

2. Magic Screen

- Jar with a metal ring
- A piece of screen or mesh
- Lid
- Water

Materials:

Method:

- a) Fill jar to rim and secure screen on top.
- **b)** Cover with lid and flip over.
- c) Remove lid and observe.

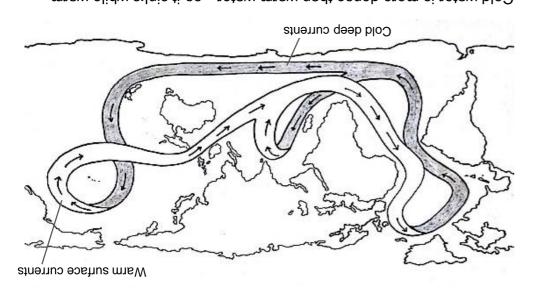
No jar? No problem. Use a cup and rubber band. But be sure the screen or mesh is FLAT and TIGHT across the rim of the cup.



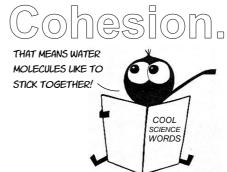


and the earth's climate.

circulates all the water in the oceans and strongly influences marine life in the oceans—a massive system of currents that slowly but steadily water "floats" on top. This phenomenon drives thermohaline circulation Cold water is more dense than warm water—so it sinks while warm

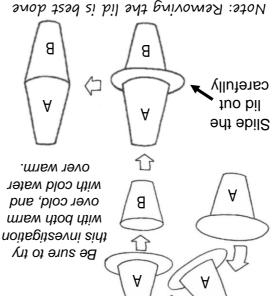


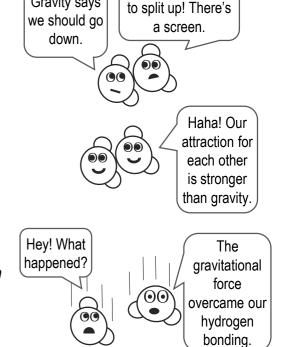
HOW DOES IT WORK?



The water molecules in the jar like each other and the jar. Their attraction for each other and the container is strong enough that they effectively form a "lid" on the bottom of the jar, just like the plastic lid did in the first investigation. If air doesn't come in, the water can't go out. So the water stays inside—until you shake or tip the jar

sllug yahte the other pulls with two people: one to hold the





the cups.

cardboard out from between d) Slowly, slide the flat lid or

of the other cup.

and invert it, then set it on top c) Place a flat lid on one cup

with cold. with warm water and the other b) Fill each cup to the brim, one

coloring to each cup.

a) Add different colors of food

:роц;әм

- Warm and cold water
- 2 identical clear cups or jars
 - A flat lid or cardboard

Food coloring

Materials:

3. Hot & Cold Cups