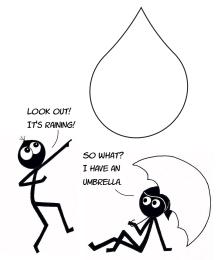


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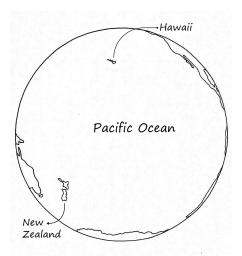


Water is the only thing on our planet that exists naturally in all three states of matter—as a solid, liquid, and a gas.

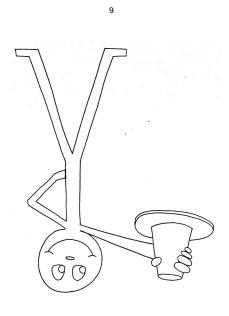
LIQUID WATER IS WHAT WE SOLID WATER HEY, WHERE'S IS ICE OR THE GAS?

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.



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





c) Remove hand and be amazed!

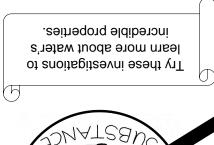
INVERT the cup (turn it upside p) Place one hand on the lid and the lid on top.

a) Pour water in the cup and place :poq;ə[/

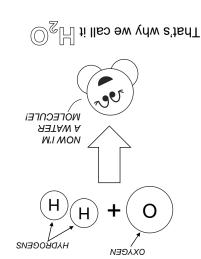
> cardstock or cardboard. · Plastic lid or a piece of

> > dng. Water

Naterials: 1. Gravity Defying Lid







It's 1 oxygen atom plus 2 hydrogens. WHAT EXACTLY IS WATER?

2. Magic Screen

Materials:

- Water
- Lid
- · Canning jar with a metal ring
- A piece of screen or other mesh fabric

Method:

- a) Fill jar to rim and secure screen over the 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

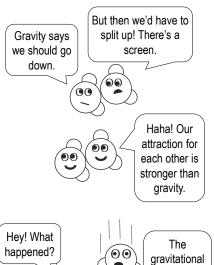




HOW DOES IT WORK?

THAT MEANS WATER MOLECULES LIKE TO STICK TOGETHER! COOL WORDS

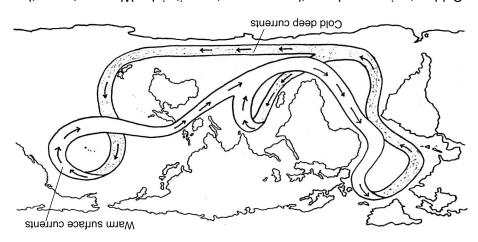
The water molecules in the jar like each other and the jar. Their attraction for each other and the container is strong enough that they effectively form a "lid" on the bottom of the jar, just like the plastic lid did in the first investigation. If air doesn't come in, the water can't go out. So the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



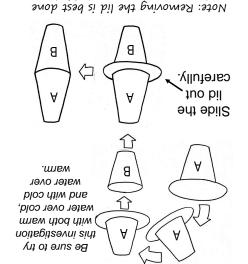


marine life and the earth's climate.

steadily circulates all the water in the oceans and strongly influences both circulation in the oceans—a massive system of currents that slowly but other hand, rises or "floats" on top. This phenomenon drives thermohaline Cold water is more dense than warm water so it sinks. Warm water, on the



steady while the other pulls out the with two people: one to hold the cups



cardboard out from between the

d) Slowly, slide the flat lid or other cup.

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

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

Warm and cold water

• 2 identical clear cups or jars

· A flat lid or cardboard Food coloring

Materials:

:bodiei

3. Hot & Cold Cups

\mathbf{B}	A		
B			D
F	E	E	b
E	G		