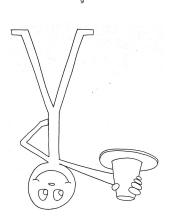


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SCIENCE MOM'S

Guide to WATER Part 1

LOOK OUT!

IT'S RAINING

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

> cardstock or cardboard. · Plastic lid or a piece of dng. • Water

:poq;əj/

Materials:

## 1. Gravity Defying Lid



## 2. Magic Screen

## Materials:

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

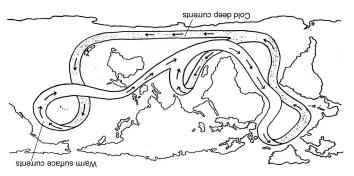
## Method:

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

Use a cup and rubber band. But be sure the screen or mesh is FLAT and TIGHT



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



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

SOLID WATER LIQUID WATER IS WHAT WE 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

incredible properties. learn more about water's Try these investigations to



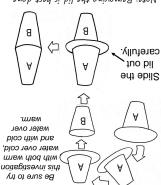


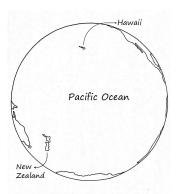
MOLECULES LIKE TO STICK TOGETHER!



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.

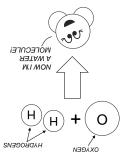
steady while the other pulls out the Note: Removing the lid is best done with two people: one to hold the cups



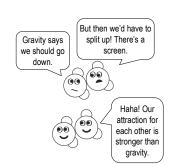


Oceans cover most of the surface of the earth, and about 70% of the planet is covered by another form of water: clouds.

That's why we call it  $\operatorname{H}_{\mathbb{Z}}$ 



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







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cardboard out from between the d) Slowly, slide the flat lid or ofher 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 p) Fill each cup to the brim, one coloring to each cup.

s) Add different colors of food :poq;ə//

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

Naterials:

3. Hot & Cold Cups

$\mathbf B$	A	A	X
B	C		D
F	E	I	D
E	G	Ð	X