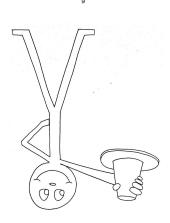


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SCIENCE MOM'S

Guide to WATER Part 1



c) Kemone pand and be amazed! (.nwob

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;əj/

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

dng. • Water

Materials:

1. Gravity Defying Lid





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"

plastic lid did in the first investigation. If

air doesn't come in, the water can't go

you shake or tip the jar. If you do either

out. So the water stays inside-until

of those things, then gravity wins.

on the bottom of the jar, just like the

COOL SCIENCE

WORDS

MOLECULES LIKE TO

STICK TOGETHER!

Water is the only thing on our planet that

LIQUID WATER

IS WHAT WE

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

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.

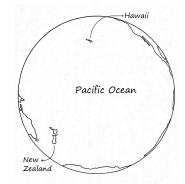
THE GAS?

exists naturally in all three states of matter-as a solid, liquid, and a gas.

SOLID WATER

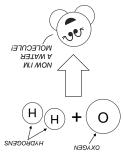
more humid it is.

IS ICE OR



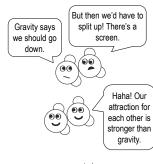
Oceans cover most of the surface of the earth, and about 70% of the planet is covered by another form of water: clouds.

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



If's 1 oxygen atom plus 2 hydrogens.

WHAT EXACTLY IS WATER?







ιı

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
 - · Food coloring

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.

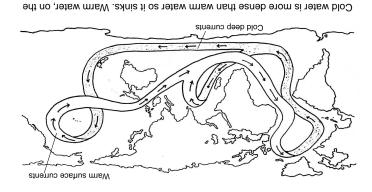
No jar? No problem.

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

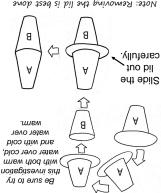




marine life and the earth's climate. steadily circulates all the water in the oceans and strongly influences both circulation in the oceans—a massive system of currents that slowly but other hand, rises or "floats" on top. This phenomenon drives thermohaline



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



· A flat lid or cardboard

Naterials:

3. Hot & Cold Cups

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