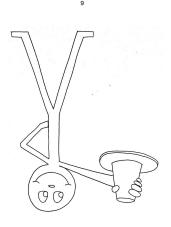


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SCIENCE MOM'S

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.

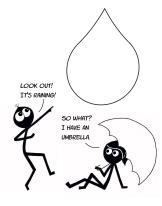
a) Pour water in the cup and place :poq;əj/

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

dng. • Water

Materials:

1. Gravity Defying Lid





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



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

on the bottom of the jar, just like the

out. So the water stays inside-until

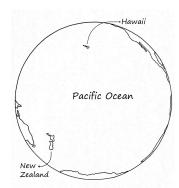
of those things, then gravity wins.

COOL SCIENCE

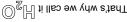
WORDS

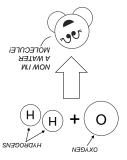
MOLECULES LIKE TO

STICK TOGETHER!



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





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

But then we'd have to split up! There's a Gravity says we should ac screen. down. Haha! Our attraction for each other is stronger than



10

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

c) Place a flat lid on one cup and

p) Fill each cup to the brim, one coloring to each cup.

:poq;ə//

· Warm and cold water

· 2 identical clear cups or jars

· Food coloring

Hey! What happened?

gravity.

cardboard out from between the

ιı

invert it, then set it on top of the with cold.

with warm water and the other

s) Add different colors of food

· A flat lid or cardboard

Naterials:

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.

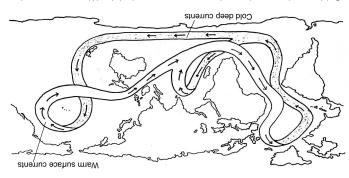
No jar? No problem.

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

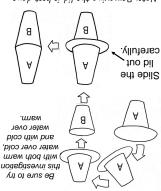




marine life and the earth's climate. steadily circulates all the water in the oceans and strongly influences both circulation in the oceans—a massive system of currents that slowly but other hand, rises or "floats" on top. This phenomenon drives thermohaline Cold water is more dense than warm water so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



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



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