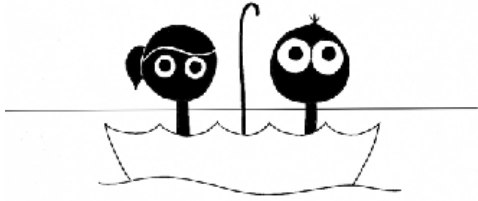


Check out my YouTube Channel!  
[www.youtube.com/ScienceMom](http://www.youtube.com/ScienceMom)

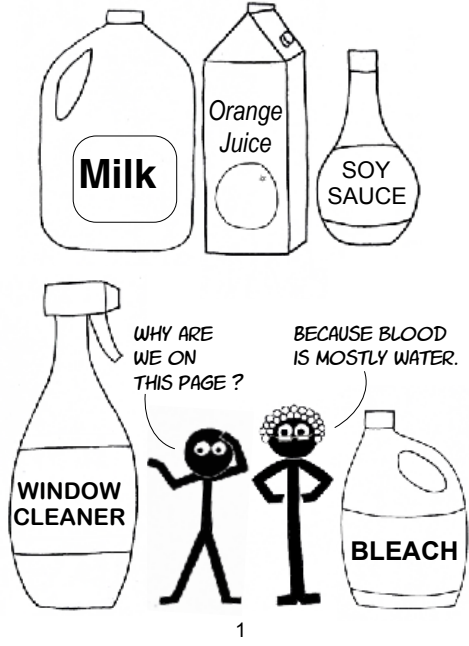


## SCIENCE MOM'S Guide to WATER, Part 5

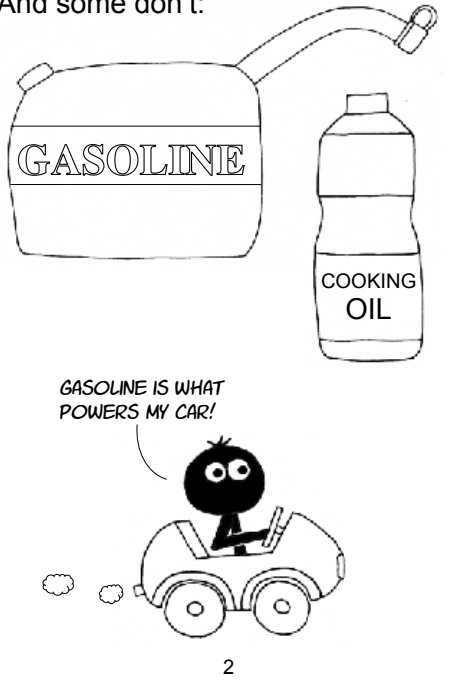


The water was salty.  
They had reached the  
**OCEAN.**

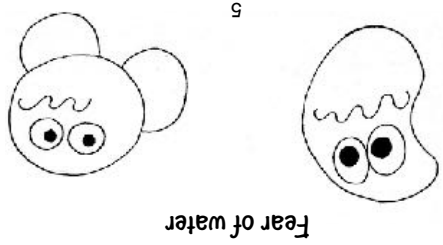
Some liquids have water in them:



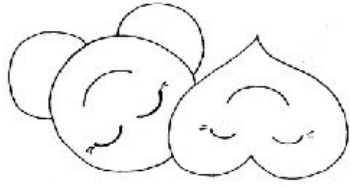
And some don't:



6  
If you mix water with something hydrophobic, they won't stay mixed. (Unless you make an emulsion, like with homogenized milk.)



Hydrophobic



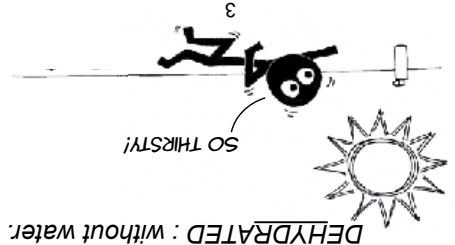
Hydrophilic



Phobia = FEAR



Philia = LOVE



### 1. Ocean in a bottle

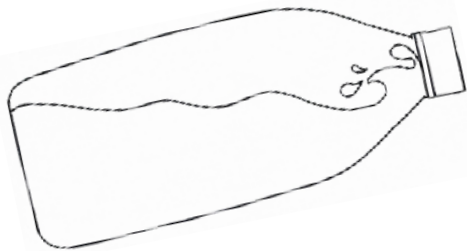
#### Materials:

- Water
- Oil
- Plastic or glass bottle with lid
- Food coloring

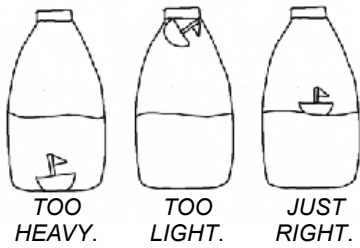
#### Method:

- Pour water and oil into a bottle.
- Add food coloring and shake the bottle gently to color the water.
- Tip the bottle from side to side to observe waves and the beautiful movement of the liquids.

To make a small boat, use plastic pony beads as the body of the boat, a small piece of a toothpick as the mast, and thin plastic or tinfoil for the sail. Carefully assemble with hot glue.



It may take a bit of experimenting to build the right boat:



### 2. Lava Lamp

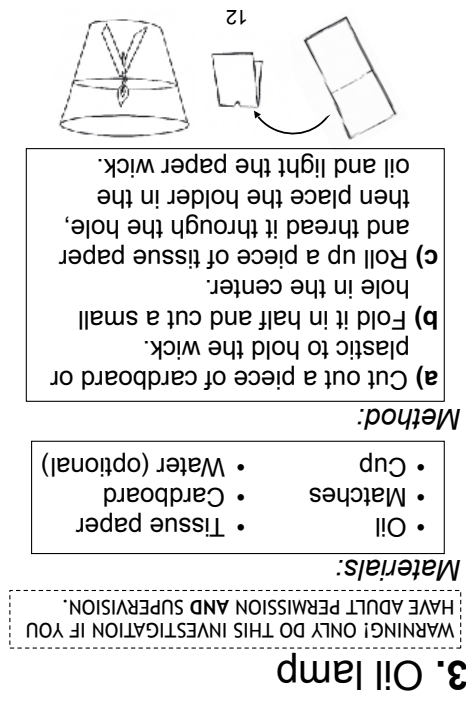
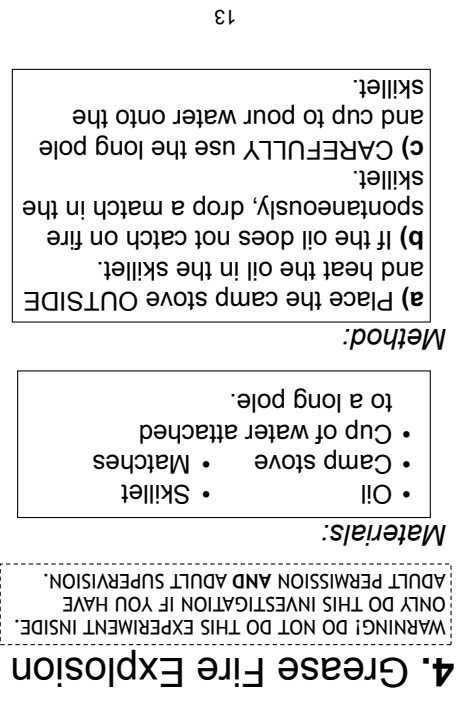
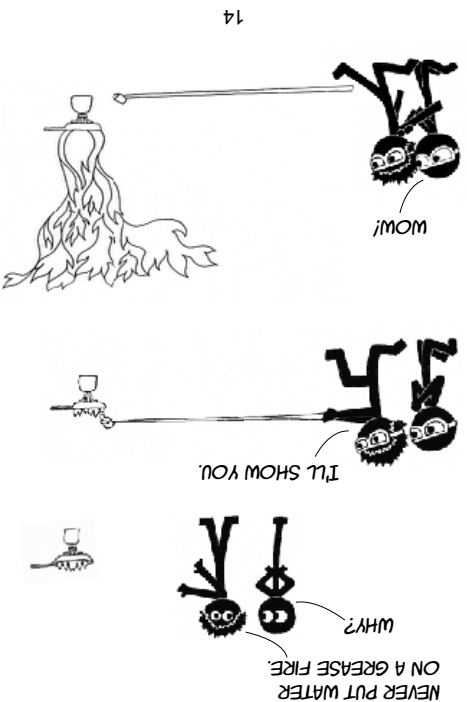
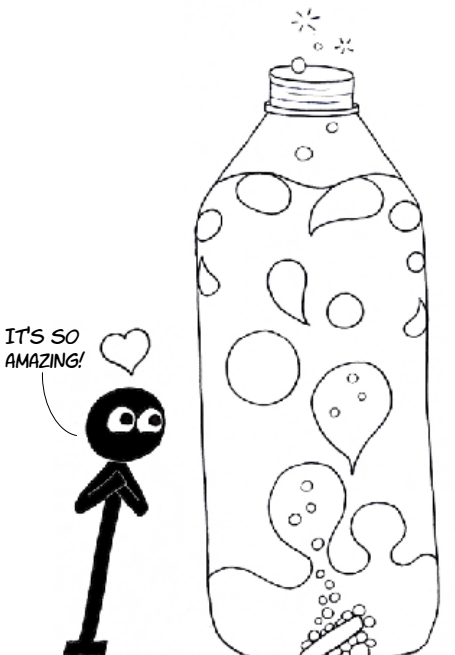
#### Materials:

- Water
- Oil
- Plastic bottle
- Food coloring
- Alka-Seltzer or other effervescent antacid tablet

#### Method:

- Place three times as much oil as water into a plastic bottle.
- Color the water with food coloring.
- Add the antacid tablet and watch the beautiful show of color and movement as the water is carried up.

**WARNING:**  
DO NOT PUT THE LID ON THE BOTTLE.



B	A	A	X
B	C	C	D
F	E	E	D
E	G	G	X