



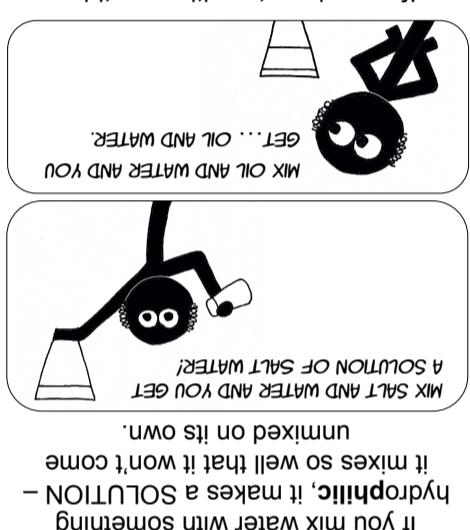
SCIENCE MOM

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



1. Ocean in a bottle

Materials:

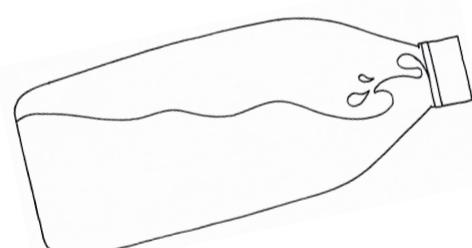
- Water
- Oil
- Plastic or glass bottle with lid
- Food coloring

Method:

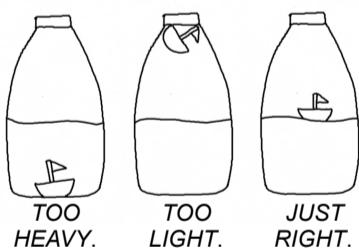
- Pour water and oil into a bottle.
- Add food coloring and shake the bottle gently to color the water.
- Tip the bottle from side to side to observe waves and the beautiful movement of the liquids.

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.

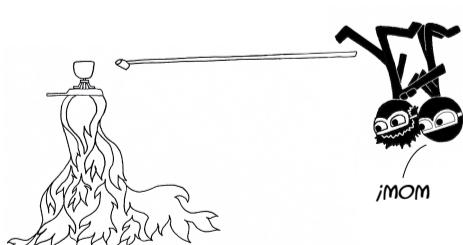
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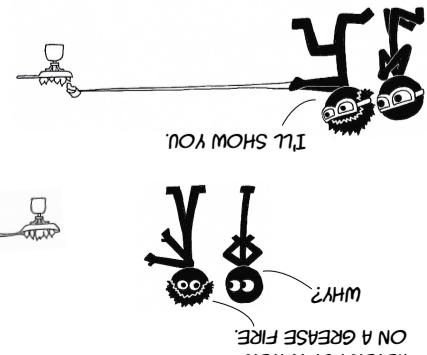
It may take a bit of experimenting to build the right boat:



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NEVER PUT WATER ON A GREASE FIRE.
 WHY?

a) Place the camp stove OUTSIDE.
b) Fold it in half and cut a small hole in the center.
c) Cut out a piece of cardboard or plastic to hold the wick.
d) Roll up a piece of tissue paper and thread it through the hole.
e) If the oil does not catch on fire spontaneously, drop a match in the skillet.
f) And heat the oil in the skillet.

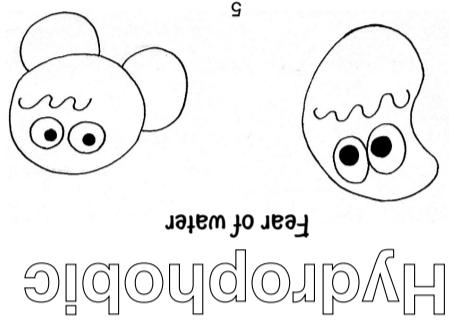
Method:

- Oil
- Skillet
- Camp stove
- Matches
- Cup of water attached to a long pole.

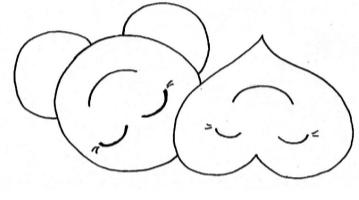
4. Grease Fire Explosion

WARNING! ONLY DO THIS INVESTIGATION IF YOU HAVE ADULT PERMISSION AND ADULT SUPERVISION!

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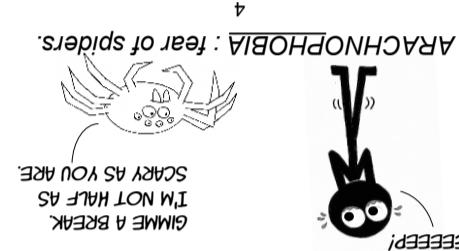
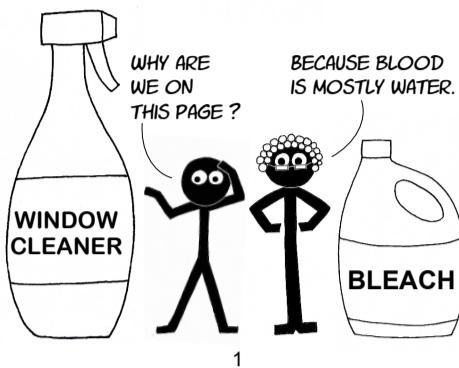
Hydrophobic



Hydrophilic



Some liquids have water in them:



Phobia = Fear

FRANCOPHILE: Someone who loves France and French culture.

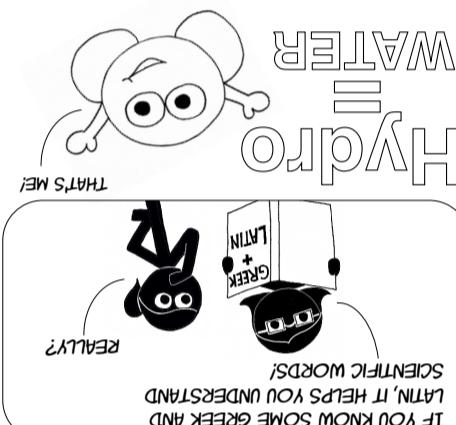
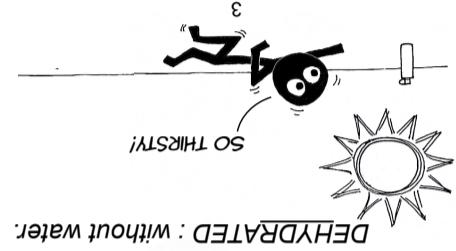


ARACHNOPHOBIA: fear of spiders.



Water = Hydro

And some don't:



2. Lava Lamp

Materials:

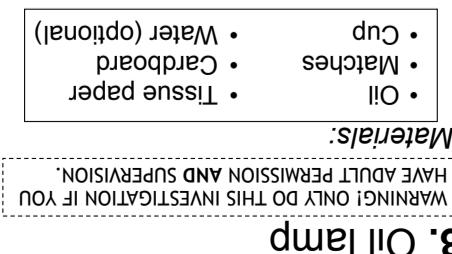
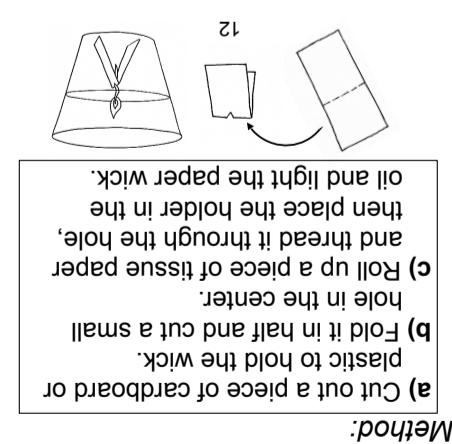
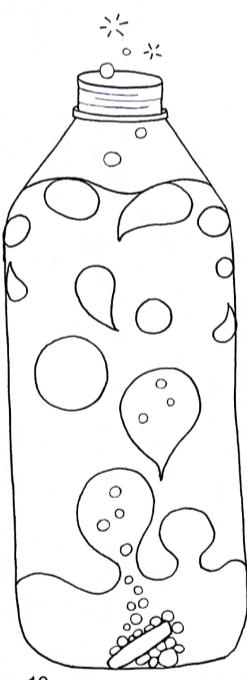
- Water
- Plastic bottle
- Alka-Seltzer or other effervescent antacid tablet
- Food coloring
- Oil

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.

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THE HERO WAS TRAPPED IN A DARK FLASHLIGHT DIED...
 MY ONLY SUPPLIES ARE A MATCH BOX, OIL, AND TOILET PAPER.



SOME HEROES HAVE CALLED THE HEROES OF THE DAY

3. Oil Lamp

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4. Grease Fire Explosion

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