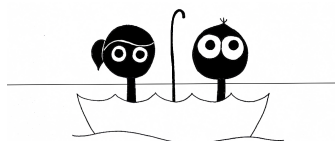


I FOUND A STICK!
LET'S THROW IT AND
WATCH IT SPLASH.

NO! SAVE IT!
MAYBE WE
CAN USE IT!

SCIENCE MOM'S Guide to WATER, Part 5



The water was salty.
They had reached the
OCEAN.

SCIENCE MOM

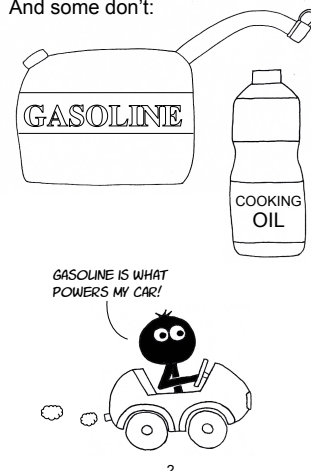
WWW.SCIENCE.MOM

www.youtube.com/ScienceMom

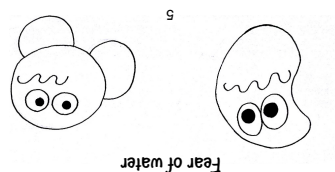
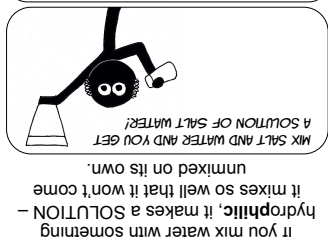
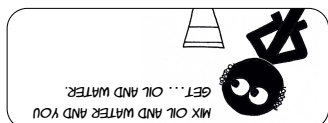
Some liquids have water in them:



And some don't:



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



Hydrophobic



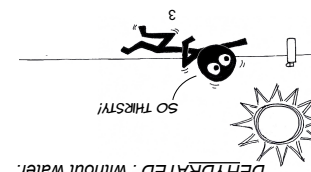
Hydrophilic



Phobia = FEAR



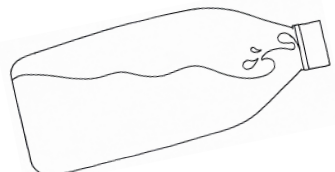
Philia = LOVE



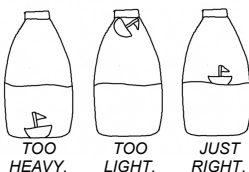
1. Ocean in a bottle

Materials:

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



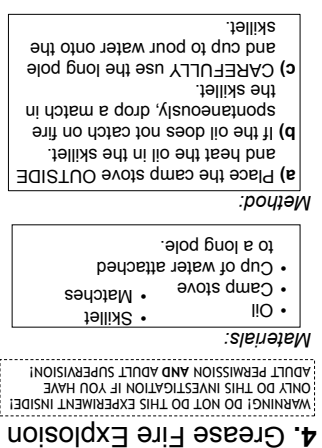
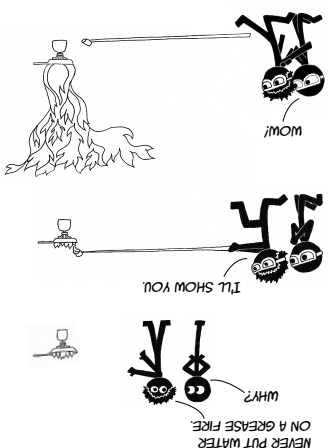
It may take a bit of experimenting
to build the right boat:



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.



2. Lava Lamp

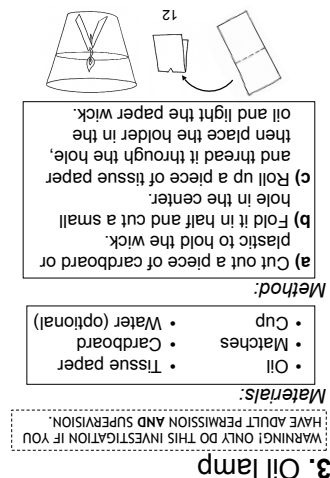
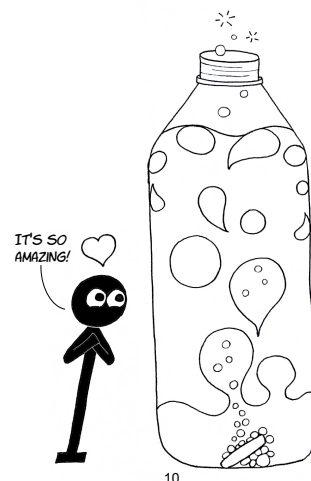
Materials:

- Water
- Food coloring
- Plastic bottle
- Oil
- 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