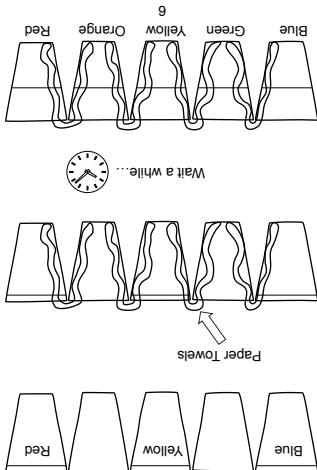


SCIENCE MOM

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3. Straw siphon

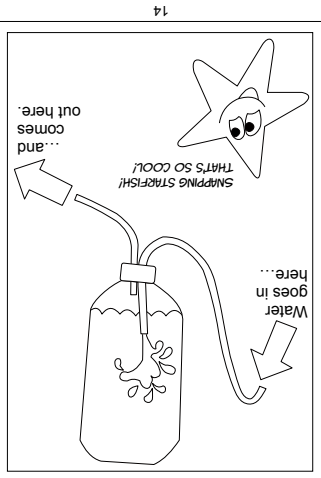
Materials:

- Bendable drinking straws
- Cup
- Water
- Tape or plastic tubing (optional)

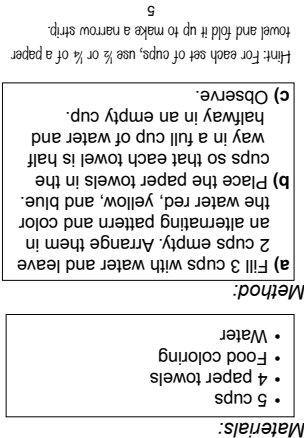
Method:

- Fill cup to brim with water.
- Put finger over top of straw to seal in the air.
- Submerge the straw into the cup so that the bend of the straw rests on the rim of the cup.
- Release thumb from straw and watch the water flow.

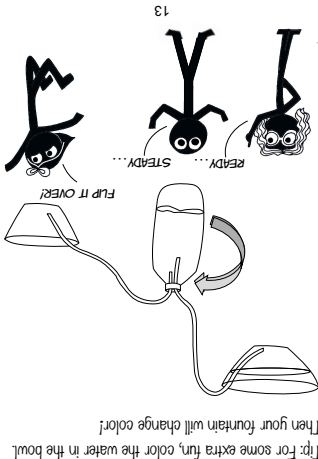
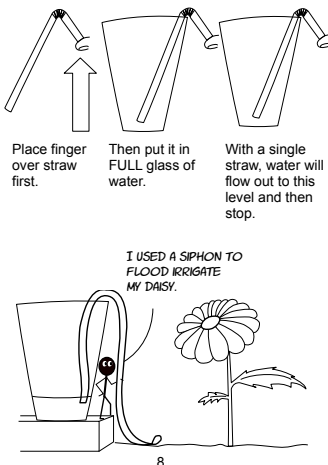
Tip: To make a siphon that can empty the whole cup, use tubing or carefully join two straws together with tape.



SCIENCE MOM'S Guide to WATER, Part 3



2. Walking Water



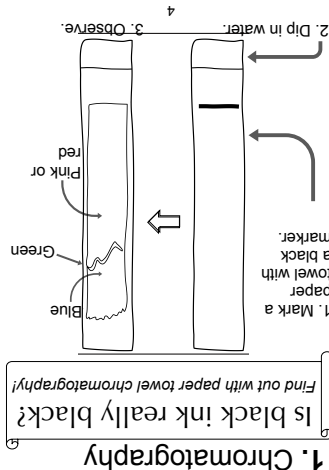
Did you know that plants release water through tiny holes in their leaves?

Water enters the plant at the roots and is drawn up through tiny tubes called **xylem**.

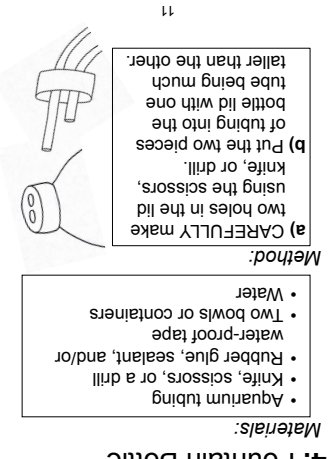
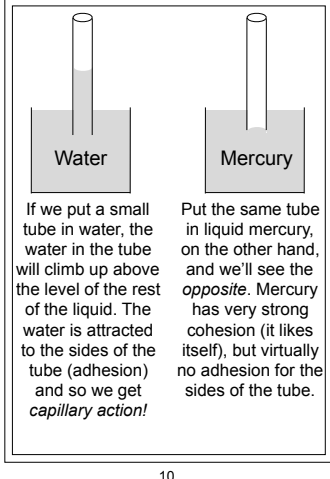
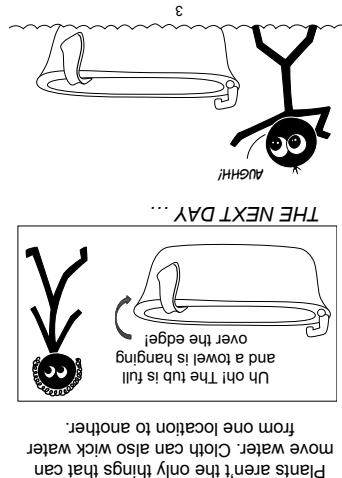
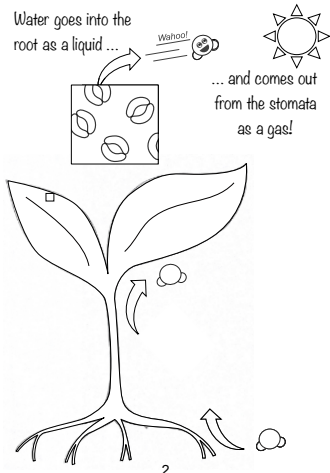
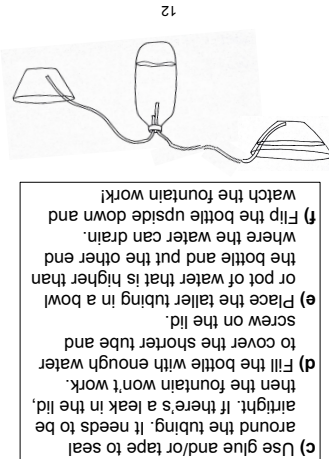
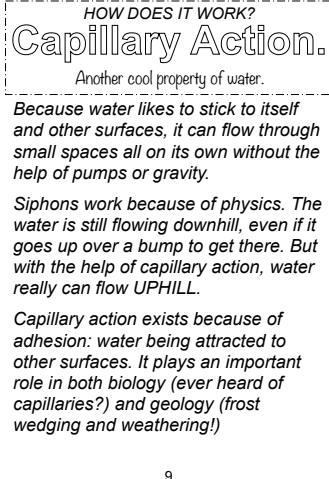
When it gets to the leaves, water evaporates out through small holes or pores called **stomata**, which can be opened or closed.

COOL FACT:

Plants can only get the air they need (CO_2), if their stomata are open. Since their stomata can only be open if they have enough water, that means plants can only breathe when they have water. A wilting plant is, essentially, trying to stay alive by holding its breath.



1. Chromatography



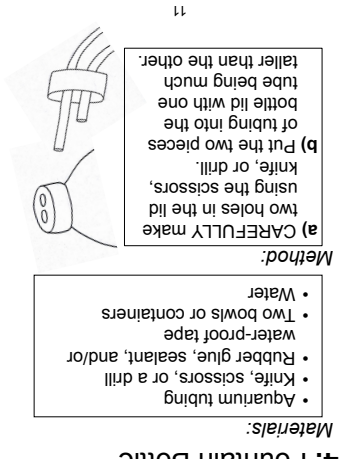
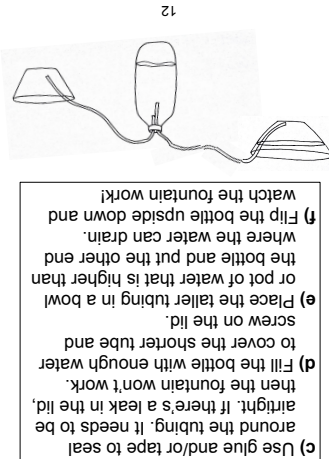
4. Fountain Bottle

Materials:

- Aquarium tubing
- Knife, scissors, or a drill
- Rubber glue, sealant, and/or water-proof tape
- Two bowls or containers
- Water

Method:

- CAREFULLY make two holes in the lid using the scissors.
- Put the two pieces of tubing into the bottle lid with one tube being much taller than the other.



B

A

A

X



B

C

C

D



F

E

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E

G

G

X