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

Water enters the plant at the roots and is drawn 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 (CO₂), 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.

3. Straw siphon

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

Method:
1. Fill cup to brim with water.
2. Put finger over top of straw to seal in the air.
3. Submerge the straw into the cup so that the bend of the straw rests on the rim of the cup.
4. 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.

1. Chromatography

Is black ink really black?

Find out with paper towel chromatography!

3 4

2. Walking Water

Materials:
- Two bowls or containers
- Water
- Food coloring
- Cup
- 5 cups
- Bendable drinking straws

Method:
1. Mark a straw with a marker.
2. Dip in water.
3. Observe.

Walking water is an example of capillary action. Water goes into the root as a liquid … … and comes out from the stomata as a gas!

Water evaporates out through small holes and is drawn up through tiny tubes called xylem.

Plants aren't the only things that can move water. Cloth can also wick water from one location to another.

Uh oh! … water.

3. Observe.

Aughh!

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3 4