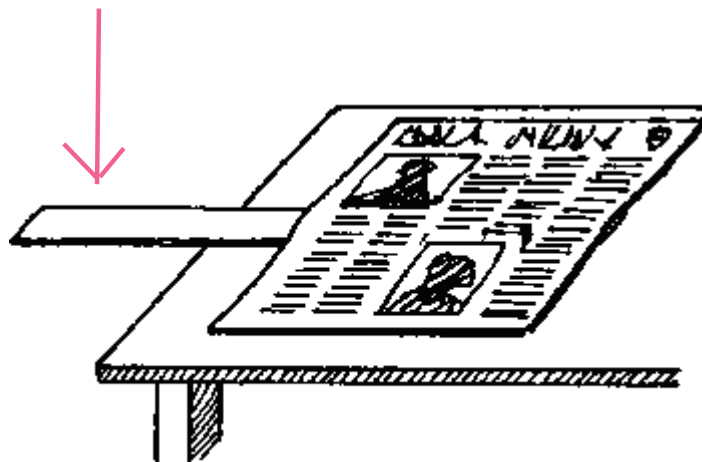


A

Push down



Take a large newspaper and fold it into a small rectangle. Now place a ruler under the paper as shown. Push the ruler downwards and the paper will flip upwards.

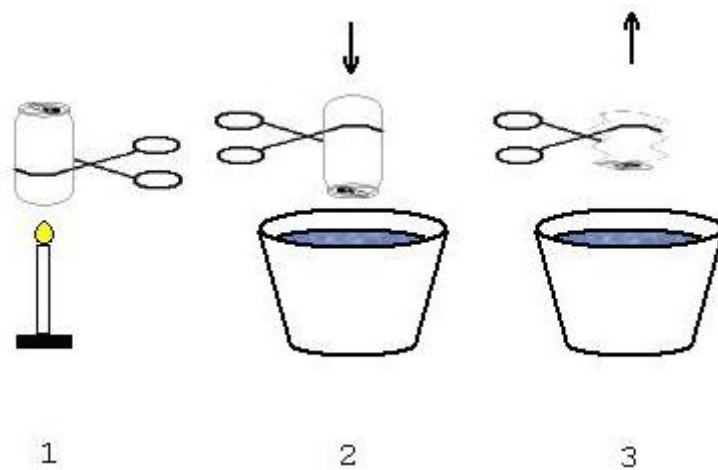
Now unfold the newspaper to its largest size and place the ruler underneath as shown.

Pushing the ruler down now does not lift the paper.

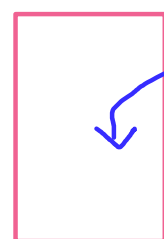
This happens because the large area of the newspaper provides a bigger downward force due to the air pressure.

$$P = \frac{F}{A}$$

B



1. Put a little amount of water into an empty coke can.
2. Heat the can until the water begins to boil, watch for the wisps of steam coming from the opening.
3. Carefully with tongs and gloves, quickly upturn the can into a basin of cold water.
4. Wow! It is crushed!
5. Crushed by the surrounding air pressure.



Steam fills up the can.

When the can is plunged into water the steam condenses and leaves a vacuum in the can. This will cause a reduction of the pressure in the can. Outside pressure is much stronger and pushes in the can

C

DRACULA'S FOUNTAIN

Ask your teacher about this one.

