



Block the air

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Słowa kluczowe:

pressure, napięcie powierzchniowe, objętość, powietrze

DZIEDZINA:

Physics

Cel doświadczenia:

Pour water into a bottle using a funnel.

Spis materiałów:

1. a plastic bottle, e.g. 1 litre
2. a drinking straw (not bendy)
3. a plastic funnel with the stem wider than the width of the straw
4. plasticine
5. insulation tape
6. a vessel with water

Etapy realizacji:

1. Put the funnel into the bottle.
2. Seal the space between the funnel and the bottle with plasticine; you can additionally use some insulating tape for the insulation.
3. Pour water into the funnel.
4. Observe water behaviour.
5. Cover the top end of the straw with a finger and put it into the funnel with water.
6. Observe water behaviour.
7. Open the straw by taking away your finger.

Pytania do doświadczenia:

1. What else can block the flow of water?
2. What can be done to pour water into the bottle with the sealed funnel?
3. What happens when you pour the water slowly and what happens when you pour it quickly?

Opis zjawiska:

Ciekawostki:

1. High water surface tension enables the upward flow of blood in the narrow vessels in the human body, thus defying gravitation.
2. The water molecule is the second most common molecule in the universe after the hydrogen

molecule.