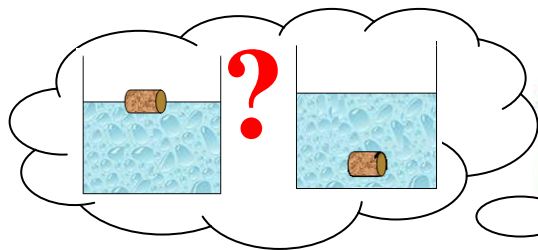


Activity 11 : Floating

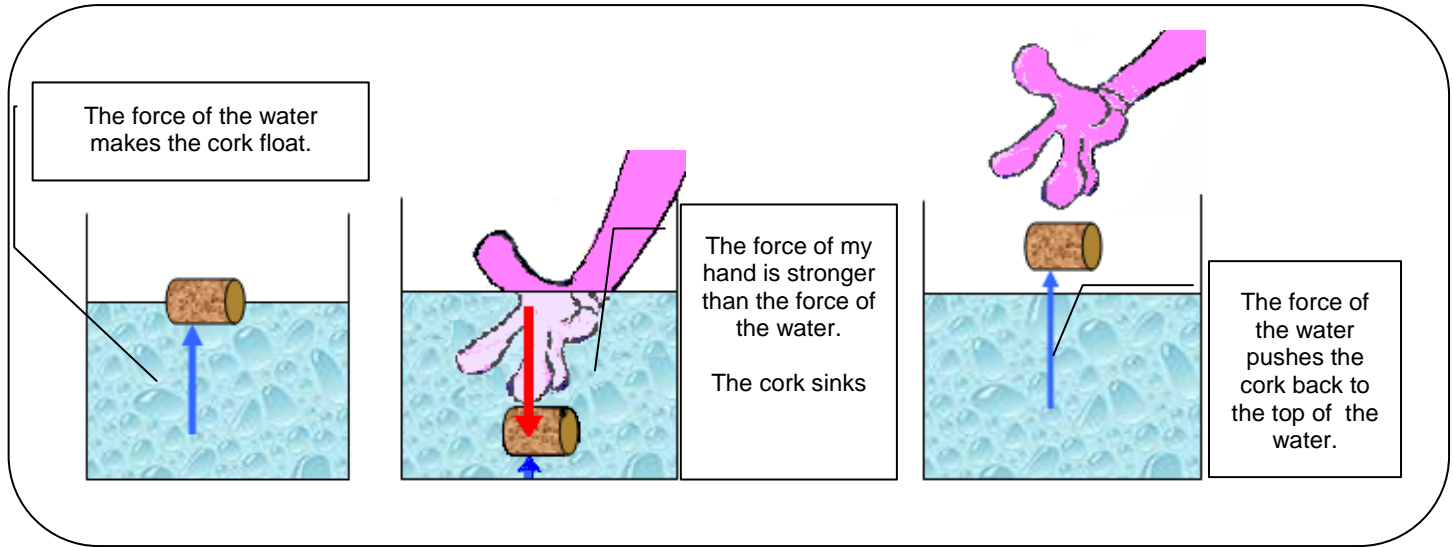


My cork, does it float or does it sink?



It floats Isidor !!!
But if you want, you can also make it sink...





The diagram consists of three panels within a rounded rectangular frame, each showing a cork in a container of water. In the first panel, the cork is partially submerged with a blue arrow pointing upwards from the water surface. In the second panel, a hand is shown pushing the cork down, with a red arrow pointing down from the hand and a blue arrow pointing up from the water. In the third panel, the hand is lifted, and the cork has risen to the surface with a blue arrow pointing upwards from the water.

The force of the water makes the cork float.

The force of my hand is stronger than the force of the water.
The cork sinks

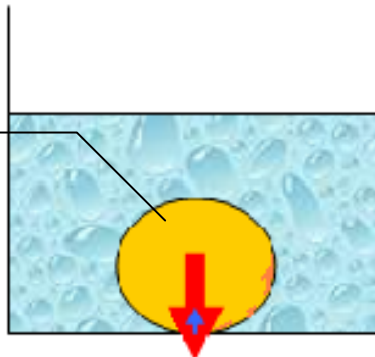
The force of the water pushes the cork back to the top of the water.

If you want the cork to stay at the bottom of the water without putting pressure on it with your hand: what can you do ?

Experiment 2 : floating also depends on the shape of object

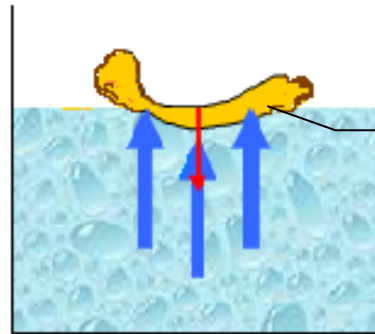
Do the same experiment with clay. Does it float or sink?

1.
If we form a ball with the clay, it sinks.



When the force of the clay is greater than the force of water, the ball sinks.

2.
If we form a "small boat", it floats.



When the force of the water is greater than the force of the clay, the clay floats.

Experiment 3 : How to make an object float that will naturally sink,

