

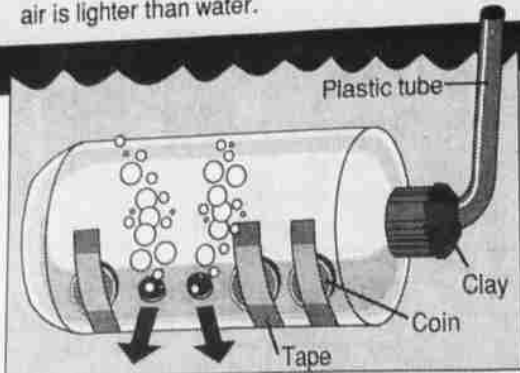
Try this: Surface a sub

This experiment demonstrates that air is lighter than water.

Make your own submarine

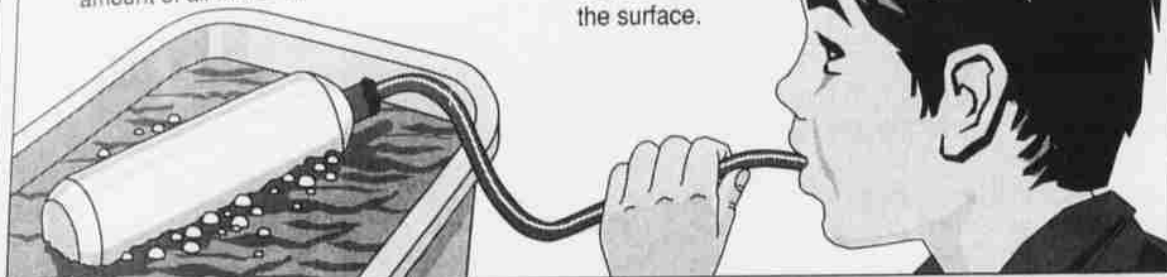
You'll need: Plastic bottle with a narrow neck, modeling clay, a piece of plastic tubing, coins, sticky tape, tub.

- 1** Cut two small holes in the side of the bottle. Tape three or four coins onto the same side of the bottle. (They will help the submarine sink.)
- 2** Put the plastic tubing in the neck of the bottle and seal the neck with modeling clay.
- 3** Put submarine in tub and let it fill with water.
- 4** Blow through the tube to force air into the submarine. As you blow, water will be forced out of the holes in the bottom.
- 5** As the submarine fills with air, it rises. You can make it rise and sink by changing the amount of air inside it.



Why did it happen?

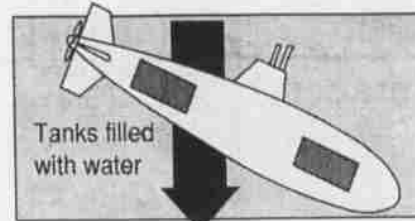
Air weighs less than water. When you fill the submarine with air, it becomes lighter than the water and rises to the surface.



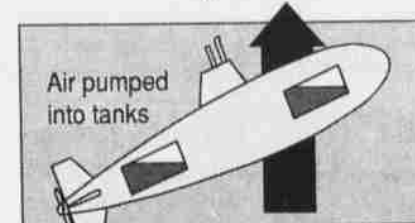
SOURCE: "175 Science Experiments to Amuse and Amaze Your Friends"

How a submarine works

Submarines use water displacement to dive and come to the surface again. At the surface, submarines float like ordinary ships, but they have special tanks inside that can be filled with air or water to change the weight of the submarine.



To make submarine dive, tanks are flooded with sea water. The sub becomes heavier than the water it displaces and sinks.



To return to the surface, compressed air is pumped into the tanks, forcing out the seawater and makes the submarine lighter than the water it displaces.

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