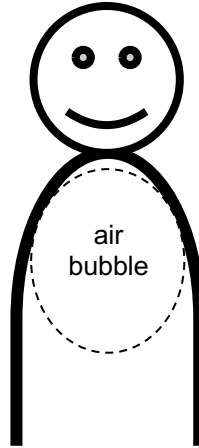


## Cartesian diver

The cartesian diver is submerged in a plastic bottle filled with water.

If you squeeze the bottle, the diver sinks. Why?



### *Hints:*

The diver is hollow and open at the bottom. On the inside there is a bubble of air.

What happens to the bubble of air, if you increase the pressure in the liquid?

Observe well and explain, using the words *volume* and *buoyancy*.