

SONOROUS SODA BOTTLE

DIFFICULTY: 3



When drilling holes and gluing you will need adult help!



YOU WILL NEED:

- ★ An empty 2-litre soft drink bottle (the best sound is achieved with 2 litre plastic bottles)
 - ★ a valve for car tyre tubes (sold by car parts distributors) - see p. xx
- Note: You can also use a French valve, using scissors to cut it out of an old bicycle inner tube.
- ★ electric drill
 - ★ drill of the same thickness as the valve
 - ★ silicone adhesive



1



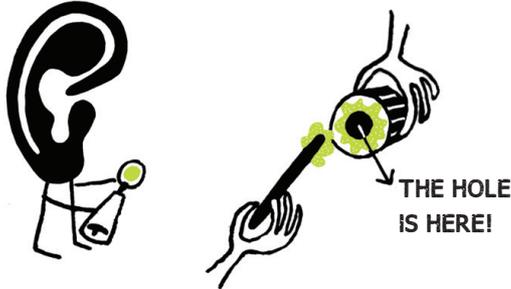
Drill a hole in the bottle cap of such a diameter that the valve fits tightly into it.



2

Insert the valve in the hole in the cap from the underside.

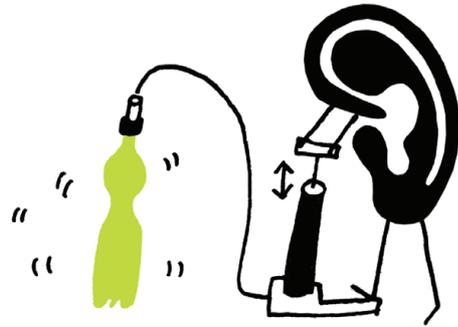
- 3 Seal around the cap from the bottom with silicone adhesive. To ensure that air is able to pass through it, take care not to clog the valve hole.



- 4 Place the lid with the valve back onto the top of the bottle and screw it up tightly.

- 5 Allow one day for the adhesive to dry.

- 6 Use a pump for inner tubes to fill the bottle with compressed air. The pressure in the bottle will affect the pitch of the tone that it produces.



THE MORE YOU PUMP IT UP, THE HIGHER IT WILL SOUND!
IF YOU PUMP TOO MUCH ...



The bottle is played by holding it tightly by its lid and banging it against your head somewhere at about the middle. You can also strike it against different objects or tap out a rhythm on it with chopsticks.

The sound of the bottle is caused by the vibrating of its body. This depends on the air pressure it contains: the higher the pressure (and the "harder" the bottle), the higher the frequency of the vibrations and thus the higher the tone; lower pressure produces a slower vibration and lower tone. The instrument can be placed among the idiophones.

