



SYRINGE POP GUN

Modern medicine produces a lot of junk, like the disposable plastic syringe for example. Take a 2.5 ml and a 20 ml plastic syringe. Do not touch their needles as they can cause severe infection. Wash these plastic syringes well. Cut off 1 cm of the big 2.5 ml syringe (Fig.1). The plunger of the 2.5 ml syringe has a weak neck located very close to the piston (Fig.2). Cut along the neck. The piston along with the fluted end makes the bullet (Fig.3).

Connect the outlet parts of the two syringes with a cycle valve tube of length 15 cm. Pull out the plunger of the big syringe so that it is in its initial position and place the bullet in the small syringe. The circular end of the syringe should go in first (Fig.4). Now, if you push in the big plunger quickly, the bullet shoots out from the small syringe with a bang (Fig.5). This is because the trapped air gets compressed by about ten times and this is enough to eject the bullet with a loud pop. The bullet travels a distance of 3-5m. This pop gun was designed by Sanjay Kapur, a student of class eleven. It is based on the same principle as the bamboo pop gun.