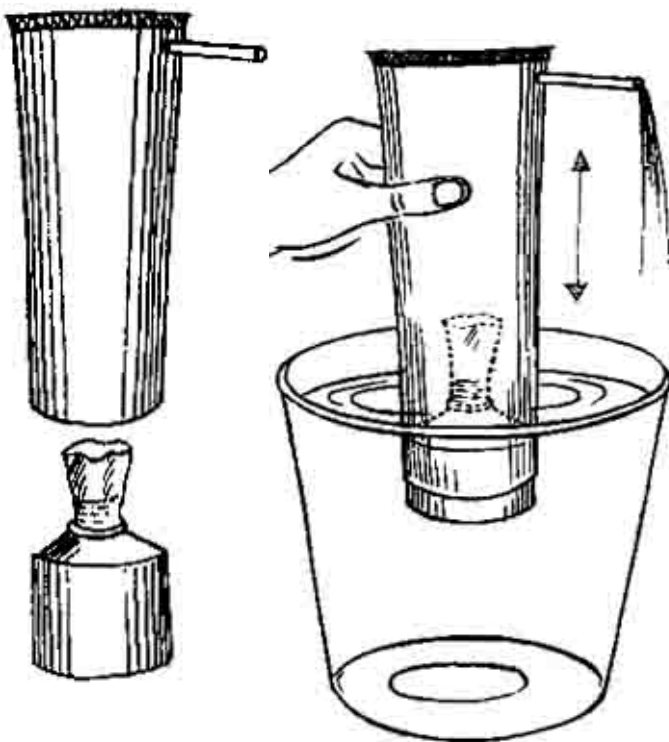
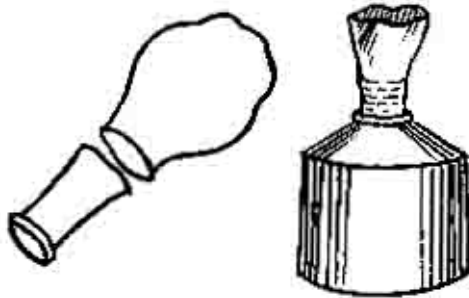
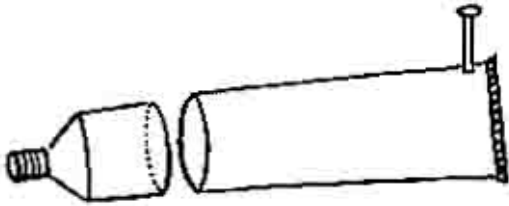


Toothpaste Tube Pump



This pump is just like the Jerk Pump. The only difference is that the materials used, both for the pipe and the valve are very different.

1. Old toothpaste tubes are not for throwing. Take a tube and cut it 2-cm from the mouth end. Clean it up. With a nail make a hole in the tube near the crimped base.

2. Cut a balloon about 2.5-cm from the mouth end. Stretch the mouth of the cut balloon and slide it on the threaded end of the mouth of the tube. This makes a very efficient valve.

3. Insert this valve end in the big toothpaste tube as shown. Also insert a plastic straw (a *Frooti* straw or an old refill) in the hole near the crimped end. The cut balloon allows flow of water in one direction. Water can enter the tube from below but cannot come out from that end. The cut balloon is a very efficient valve.

4. Hold the tube with your hand and move it up and down into a mug of water. After a couple of strokes water will start squirting out.