Arvind Gupta
Toys from Trash
www.arvindguptatoys.com/toys.html

Simple Hand Pump

Step-by-Step Photo Guide
Detailed Worksheet
Simple Hand Pump

Diagram:
- Connecting Rod
- Delivery Pipe
- Cylinder
- Piston
- Valve

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Simple Hand Pump (Water gushing out)
The suction valve: 5. Take another him-heel.

Open and close like a valve. 6. Make a 2-mm hole in the center and 6-mm hole.

The cylinder - the cyinder sandpaper so that it is free inside support piston. Rub it a little on a 2-mm piece of rubber. The inner circle will make a 3-mm hole in the center and 8-mm hole.

A rubber adhesives: 1. For making this pump you will need:

A hand-pump: 7. Make a 3-mm hole in the center of the base and snap the base so that the cycle base. A large piece of the base.

This is the deliver.

A real hand pump: 8. Insert the spoke through.

B. Keep the pump in a bowl of water and move the spoke up.

The hand-pump assembly: 4. Cut a 12-cm long piece from a bicycle spoke. Fix the pin on the spoke threads.

Photo guide: 3. Make a 2-mm hole in the center and 6-mm hole.

Detailed worksheet: 2. With a sharp scissors cut and remove the outer circle of the center and 8-mm hole.

Step-by-step:

1. Take another him-heel.

2. Make a 2-mm hole in the center and 6-mm hole.

3. Make a 2-mm hole in the center and 8-mm hole.