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

☑ Step-by-Step Photo Guide
☑ Detailed Worksheet

Level Low Constant Flow
Plastic Bottle

Stiff Straw

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Make holes at bottom of bottle and in the lid

Insert straw
Insert long straw in the lid in a tight fit
Normally as water level in bottle lowers the flow from the pipe slows. But in this case the flow from the outlet remains same even when water level decreases in the bottle.
EXPERIMENT ON CONSTANT FLOW !!
The air pressure at point "X" is the same as the air presssure outside. This is because the coin (on the container) is below the "X" level. Below this level the water flow will reduce. This is because the water will fall from the lower straw at a constant rate.

Place water filled bottle on a stand. Water will fall from the lower straw at a constant rate.

To prevent leakage, apply glue at the straw near the bottle base and the long one in the lid.

Press the short straw near the bottle and take two straw of same length. One long the other.

You need:
- Old Bottle
- Straw
- Scissors
- Glue
- Rubber
- Coin
- Tray

Constant Flow