

# TechJunior - STEM education

AIR PRESSURE DEMONSTRATION  
DRINKS DISPENSER

# Materials

- Plastic bottle
- Balloon
- Water
- Straw
- Scissor
- Peg - optional, but helpful



# HOW TO MAKE AN AIR PRESSURE DRINKS DISPENSER

- Make a small hole above the bottom of the bottle. Make sure the height of the hole point should not be more than the length of the straw.
- You can use cutter or hot screw driver to make the hole.
- Insert the plastic straw through this hole. If required, seal the joint with clay, dough or hot gun to prevent any leakage.

# WHY DOES THIS HAPPEN?

This works because air presses down equally on the water in the bottle and in the straw when there is no balloon present ( or the balloon is pegged ) but when the peg is removed, air from the balloon increases the air pressure in the bottle pushing down on the water, forcing it through the straw.

# What is air pressure?

Air pressure is the weight of air molecules pressing down on the Earth. The pressure of the air molecules changes as you move upward from sea level into the atmosphere. The highest pressure is at sea level where the density of the air molecules is the greatest.