

Balloon in a Bottle

Purpose: To demonstrate air takes up space and air pressure

Materials: 2 liter bottle and a balloon



Demonstration: Punch a small hole in the bottom of an empty 2 liter bottle. Put a balloon in the bottle so that the end you blow up is pulled out and over the mouthpiece of the bottle. Now blow up the balloon inside the bottle. Let the air out and cover the hole in the bottle with your finger and try to blow up the balloon. Impossible because the air in the bottle takes up space and has pressure.

A Little Fun: Give an unsuspecting person a bottle without a hole in the bottom to blow up while you have the bottle with the hole in it and challenge them to a race. Then watch them turn blue trying to blow the balloon up.