

Drinks Dispenser

Of course we could just pour our fizzy of choice straight from the bottle to our glass, but if we're not careful the fizzy can fizz over and make a mess! Using good ol' science, this drinks dispenser will have us pouring all the fizzy we want with no fizzing over.

You need:

- 2 soft drink bottle tops
- An empty plastic bottle (fizzy drink variety works best)
- A bottle of fizzy of your choice
- A drinking straw
- A length of clear tubing (the type you use in a fish tank) - needs to be long enough to reach the bottom of the fizzy drink bottle with 15cm overhang.
- Scissors
- Hot glue and hot glue gun
- A electric drill (maybe adult supervision with this too).

Method:

1. Using the hot glue, stick the bottle lids together. Flat top bit to flat top bit.
2. Take the empty bottle and below the opening drill a hole just big enough for the clear tubing to go through.
3. Thread the clear tubing through the hole you've just made and pull the tubing so it comes out of the bottle through the opening. Use the hot glue to seal the drilled hole around the tubing.
4. Take the lids that you glued together in step one and drill two holes, through the flat top parts, side by side. Careful that you drill two separate holes and not create one big one.
5. Using the scissors, cut the straw into thirds, take one of these and poke it through one of the holes drilled through the lids. Use hot glue to seal around the straw.
6. Thread the clear tubing that is coming out of the empty bottle's opening through the remaining drilled hole in the lids. Make sure you pull enough length of clear tubing through to reach down to the bottom of your full bottle. Use hot glue to seal around the tubing going through the lids.
7. Screw the lid onto the empty bottle. Place the clear tubing into the fizzy bottle and screw the other lid onto the fizzy bottle.
8. You should now have two bottles joined by the lids, the empty one upside down and above the full one. The clear tubing should start at the bottom of the full bottle, up through the lid, and out through the drilled hole in the empty bottle.
9. Hold a glass under the clear tubing hanging out, and squeeze the empty bottle, your drink will be dispensed. ENJOY!!

What's happening?

When you squeeze the empty bottle air is pushed through the straw and into the full bottle. There's nowhere for the air to go so it pushes the fizzy drink down. The only place for the fizzy to go is up the tubing and into your glass. It's called air pressure.