A Trick Can

This experiment is best done over a sink or basin.

**What to do:** Using the hammer and nail, punch a small hole on one side of the can near the bottom. Fill the can with water and quickly screw on the cap. Then remove the cap.

**What happens:** The water does not flow out from the whole---until you remove the cap.

**Why:** Air is pressing up harder than the water is pressing down—until you remove the top of the can. Then the air pressing down on the opening in the can, added to the pressure of the water, makes the downward pressure greater than the upward pressure.

**YOU NEED**
- empty can with a screw cap
- hammer
- nail
- water