# Just For Fun!

Here are some VERY fun lab activities you can do at home!

States of Matter

Chemistry is "CHOOL!"

#### Materials

- Ice bath
- safety goggles
- Heat source

- Tongs,
- empty soda pop can
- 10-15 ml of water



Prepare an ice bath as shown. Heat a small amount of water (10-15 ml) in the can until you see some steam exiting the can.



Turn can upside down INTO the ice bath & hold it there. (*Inverting the can is equivalent to placing a cover on the can to hold the gases in.*)









## Collapsing Can Experiment

Click on the link: (0:49)

www.pottersschool.org/watch?v=vzenRoxrnm8

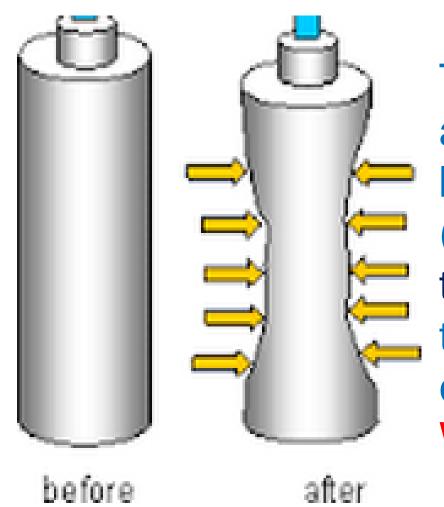
Why did the can collapse?



## Atmospheric Pressure



The can originally did not collapse. Why?

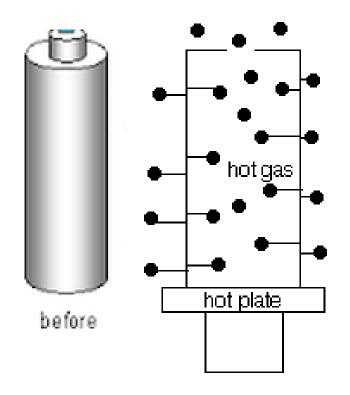


Then, after adding boiling water (really it was the steam), the can collapses. Why?

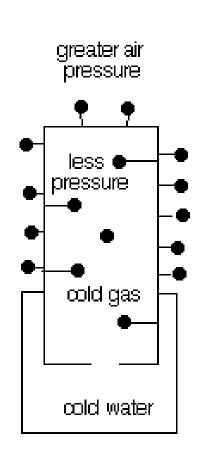
States of Matter

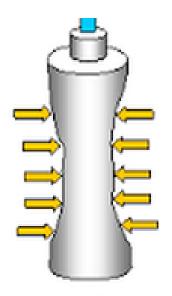
## Atmospheric Pressure





Notice the air molecules "before" & "after"







#### **Materials**

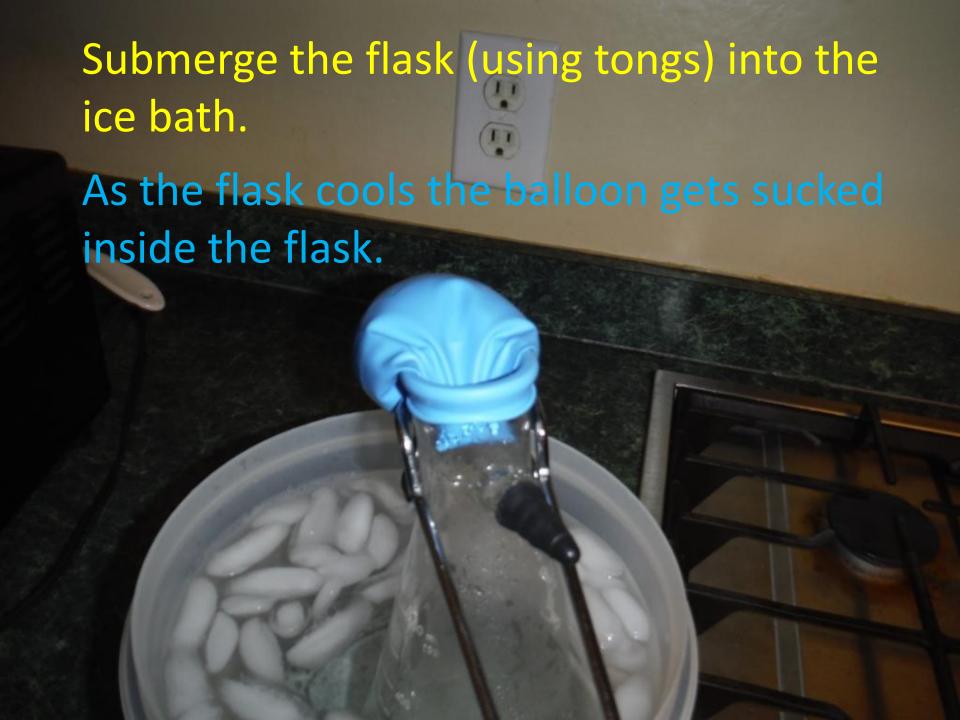
- A 250 500 ml flask or glass bottle with a smaller opening.
  - Tongs
  - Large Balloon
  - Heat source

- Safety goggles
- Ice bath (see lab 1)

• 25-30 ml of water (added to the flask or bottle)











#### **Materials**

- Match
- 250-500 ml flask

- PEALED hard boiled egg
- empty soda pop can



- Make a hard boiled egg (small pan, boiling water that covers the egg, egg in shell for 10 minutes)
- Peal the hard boiled egg.
- Light a match, let it burn 2-3 seconds directly above the flask and then drop it into the flask.

