

CHEMISTRY

Name _____
Name _____
Date Due _____

EXPERIMENT: Gas Pressure

Purpose: To observe the effects of pressure (or lack of it).

Materials:

Soda can, empty	Hard boiled egg, shell removed
Hot plate	Erlenmeyer flask, 1000 mL
Beaker, 600 mL	Florence flask, 500 mL
Beaker tongs	Paper towel
Ice	Matches
Water	Crucible tongs
Vacuum pump	Balloons (2)
Marshmallow	

Procedure:

1-Pour 15 mL of water into the soda can. Place the can on the hot plate. Heat the water in the can. When steam has been coming out of the can for at least 30 seconds, use the beaker tongs to pick up the hot can. Plunge the can, opened-end down, into a beaker of ice water. Record your observations.

Explanation:

2-Inflate a balloon until it is approximately 3 inches in diameter. Tie off the balloon. Place the partially inflated balloon on the plate beneath the bell jar of the vacuum pump. Place the bell jar back on the plate. Make sure there is enough grease on the bottom of the bell jar to 'seal' the bell jar to the plate. Turn on the vacuum pump with the instructor's supervision. Record your observations.

Explanation:

3- Repeat Procedure #2 but instead of using a balloon, use a marshmallow. Record your observations.

Explanation:

4-Roll up a sheet of paper towel to make a 'torch'. Light the paper towel. When it is burning, drop it into the 1000 mL flask. Immediately position the hard boiled egg on the mouth of the flask. Record your observations.

Explanation:

5-Pour 20 mL of water into the 500 mL Florence flask. Place the flask on the hot plate and heat the water until steam is coming out of the mouth of the flask. Use crucible tongs to take the flask off of the hot plate. Place a balloon over the mouth of the flask. Record your observations.

Explanation: