

# NEATH PORT TALBOT COLLEGE COLEG CASTELL NEDD PORT TALBOT

## School of Maths & Science Science Practical

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### To Investigate the Effects of Atmospheric Pressure

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#### ◆ Aim

To investigate the effects of atmospheric pressure using the crushing can experiment.

#### ◆ Introduction

You will heat an aluminium can which has a small amount of water inside. When the water boils the can will be sealed and placed in a trough of cold water. The results will be noted and discussed.

#### ◆ Safety

##### Control Measures



- Safety Goggles must be worn.
- You are reminded of the need of good laboratory practice in order to maintain a safe working environment.

##### Hazards



##### General Hazard

Take care with heating apparatus and can as they will become very hot.  
Make sure that tongs are used.

## ◆ Apparatus Required

Aluminium can with stopper, tongs, heat proof mat, Bunsen burner, tripod and gauze, goggles, trough of water.

## ◆ Procedure.

1. Place a small amount of water in the can and place on the tripod.
2. Heat the can until a large quantity of steam can be seen to escape.
3. Use the tongs to place the stopper firmly on the top of the can.
4. Lift the can carefully using the tongs and place the can in a trough of cold water.
5. What happens? How can you explain this?

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