

# NEATH PORT TALBOT COLLEGE COLEG CASTELL NEDD PORT TALBOT

## School of Maths & Science Science Practical

---

### Physics Superstars

---

#### ◆ Aim

To determine the power developed in physical activity.

#### ◆ Introduction

By taking appropriate measurements you will determine the power developed in lifting and in climbing stairs.

#### ◆ Safety

##### Control Measures

- You are reminded of the need of good laboratory practice in order to maintain a safe working environment.

##### Hazards



##### General Hazard

Take care in lifting heavy masses.  
Take care in climbing stairs  
**(please do not run!)**

## ◆ Apparatus Required

Masses, Metre rule, stopwatch, bathroom scales.

## ◆ Procedure

1. You are required to investigate the power developed in
  - (i) lifting an object and
  - (ii) climbing the stairs.
2. Explain with the aid of diagrams and relevant scientific knowledge how you would carry out this investigation.

---

---

---

3. Working in small groups take appropriate measurements to calculate the power developed in each activity by each person in the group.
4. Tabulate your measurements neatly.


5. Calculate the power developed in each activity for every member of the group.
6. Write a summary of your findings and who was the winner?

---

---

---

---

---

---

---

---