



A Question of Balance

Aim To deduce the location of 3 objects in a grid of 9 objects using balance.

Materials 1 grid of 9 objects 1 magnet
1 metre rule 1 15 cm steel rule

Method

- On a 3x3 grid are located 6 aluminium discs plus a magnetic disc, a steel disc and a brass disc, all hidden from view.
- The latter three discs are each twice the mass of an aluminium disc.
- Using balance, and any other clues, deduce the locations of each of the discs.

Conditions –

Time limit 30 minutes

Ranking The ranking order will be determined by the time taken to correctly identify the locations, with 5 minute penalties for each wrong guess .

Score