

Experiment 3

The candidates will be expected to determine the density of aluminium foil.

Test 1

Apparatus required:

- 1 × rectangular sheet of aluminium (cooking) foil approximately 30 cm wide and 100 cm long.
- 1 × metre ruler.
- 1 × digital vernier callipers [or a micrometer] of resolution 0.01 mm.
- 1 × 50 ml measuring cylinder.
- 1 × balance of resolution 0.1 g or 0.01 g.
- 1 × water bottle or beaker containing at least 50 cm³ of water.

All the above apparatus should be available to the candidate at the start of the experiment. The micrometer/vernier callipers could be shared between candidates, as could the balance.

Test 2

The apparatus is as for **Test 1**, except that the sheet of aluminium foil should be approximately 30 cm × 80 cm.