

Experiment 1

Test 1

Candidates will be expected to investigate the weight of a metre ruler, and find the weight of a reel of wire.

Apparatus required:

1. 1 retort stand boss and clamp.
2. 1 metre wooden ruler with holes drilled near the top edge at 55cm, 60cm, 65cm, 70cm and 75cm.
3. 1 flat headed nail to act as a pivot – must be free to move when placed through the holes drilled in the ruler.
4. 200g mass.
5. Pre-tied loop to allow suspension of 200g mass.
6. Reel of wire of mass 110g to 130g with a pre-tied loop of thin string to allow it to be suspended over the ruler.

The nail pivot should be set up in the clamp stand at a suitable height.

Test 2

The apparatus is as for Test 1, except that the mass of the reel of wire should be in the range 140-160g.