

LEVER & FULCRUM - metre rule and pivot

Cat: MF1998-001 Complete with hangers, but w/o weights

DESCRIPTION:

The lever is a 1 metre long rule that rests edgewise on knife edges positioned at its mid point. The 'vee' groove that accepts the knife edges is in the upper edge of a metal stand fixed to a solid base so that the rule rests horizontally about 150mm above the bench.

The metre rule can swing like a see-saw around its knife-edge pivots. Various weights on special 50g hangers are positioned along the rule on either side of the pivot point so that equilibrium is maintained and the rule is balanced and horizontal. These special hangers rest on the upper edge of the rule and permit the weights to hang vertically down without affecting the balance. With the rule balanced and horizontal, the 'moment' in gram cm is calculated by multiplying the total weight in grams (including the hanger) by the distance away from the pivot point in centimetres. The same calculation is performed on the weight and the distance on the opposite side of the pivot point.

It is found that the calculation of the 'moment' (weight x distance) on either side of the pivot point must be the same for the lever to maintain equilibrium.

MF1998-001 lever & fulcrum



Physical size: 220x160x55mm LxWxH + tube 1050x40mm LxD Wt: 0.56 kg.



THE KIT CONTAINS:

- 1 pce Base (with the end mouldings removed) with 'Fulcrum' (vertical upright with 'vee' groove)
- 1 pce Lever. Balanced metre rule with knife edge fitted
- 2 pcs 50gm brass weight hangers to be positioned along the rule.



Place the 2x plastic end mouldings over the ends of the rail as shown in the image and fit the small screws and tighten firmly.

Note: Slotted weights are not supplied with unit

Designed and manufactured in Australia