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Product Name :

Roberval Balance

Product Code :

SLE/LB/03



Description :

The Roberval Balance gives primary and middle school pupils their first hands-on weighing: an object goes on one pan and standard masses on the other until both sides level. It is a simple model with a steel plate body and metal pans, and its parallel linkage keeps both pans upright as they rise and fall.

Roberval balance construction

Parameter	Detail
Type	Roberval balance, simple model
Pans	Two, metal
Body	Steel plate
Purpose	Comparing masses and weighing against standard masses
Product code	SLE/LB/03
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Classroom mass lessons on the Roberval balance

Roberval's paradox. Put two equal pieces from a mass weighing set on tray on the pans, one at the centre of its pan and the other at the far edge. The balance stays level. Ask pupils to predict what will happen before each move, then trace the parallel linkage together to see why the pans stay upright.

Weighing in cubes first. Balance a toy, an apple or a shoe against linking cubes and record each mass as a number of cubes. Some groups use cubes and others use counters, and the class discusses why their numbers do not agree before switching to gram masses.

Does shape change mass? Roll a ball of modelling clay and balance it against masses. Then squash it flat or break it into pieces and put every piece back on the same pan. The pans still level, which shows young pupils that changing shape does not change mass.

Frequently Asked Questions About the Roberval Balance

How small a difference can pupils detect on this balance?

Sensitivity is not listed for this simple model, so test it. Balance two equal loads, then add
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