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**Product Name :**

Compression Balance

**Product Code :**

SLE/LB/04



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## Description :

The Compression Balance is a direct-reading dial scale: a load on its large pan compresses a spring, and the pointer swings across a wide view dial that a whole group can read at once. Its plastic moulded body suits quick weighing of everyday objects and samples in school science, home science and maths lessons.

## Compression balance details

| Parameter | Detail |
|---|---|
| Type | Compression (dial) balance |
| Dial | Wide view |
| Pan | Large |
| Body | Plastic moulded |
| Purpose | Quick, direct-reading weighing of everyday objects and samples |
| Capacity and graduation | Not stated in the current documentation |
| Product code | SLE/LB/04 |
| Minimum order | 10 units |
| Dispatch | Usually within 7 to 10 working days |
| Supplied by | ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India |

## Weighing and estimation lessons on the dial balance

Estimate, then weigh. Each group handles a piece of fruit, a book and a bag of sand, writes down an estimate of each mass, then places the item in the middle of the pan and reads the wide view dial. Comparing estimate and reading after each item shows pupils how their sense of grams and kilograms improves during the lesson.

Checking the dial with known masses. Add masses from a mass weighing set on tray to the pan one at a time and record the dial reading for each total. A graph of dial reading against known mass should be a straight line through zero; a bend or an offset shows where the scale reads high or low.

Squashed spring, stretched spring. Weigh one object on the compression balance and then hang it from a force meter, whose spring stretches instead of squashing. Both instruments respond to the pull of gravity on the object, while a two-pan beam balance such as the Roberval balance compares masses directly. Pupils convert between the readings and discuss the difference.

## Frequently Asked Questions About the Compression Balance

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