

# 1 LITRE ROCKER SCALES

## PRODUCT GUIDE

IP 090559

THIS PRODUCT GUIDE MAY BE PHOTOCOPIED FOR CLASS USE ONLY

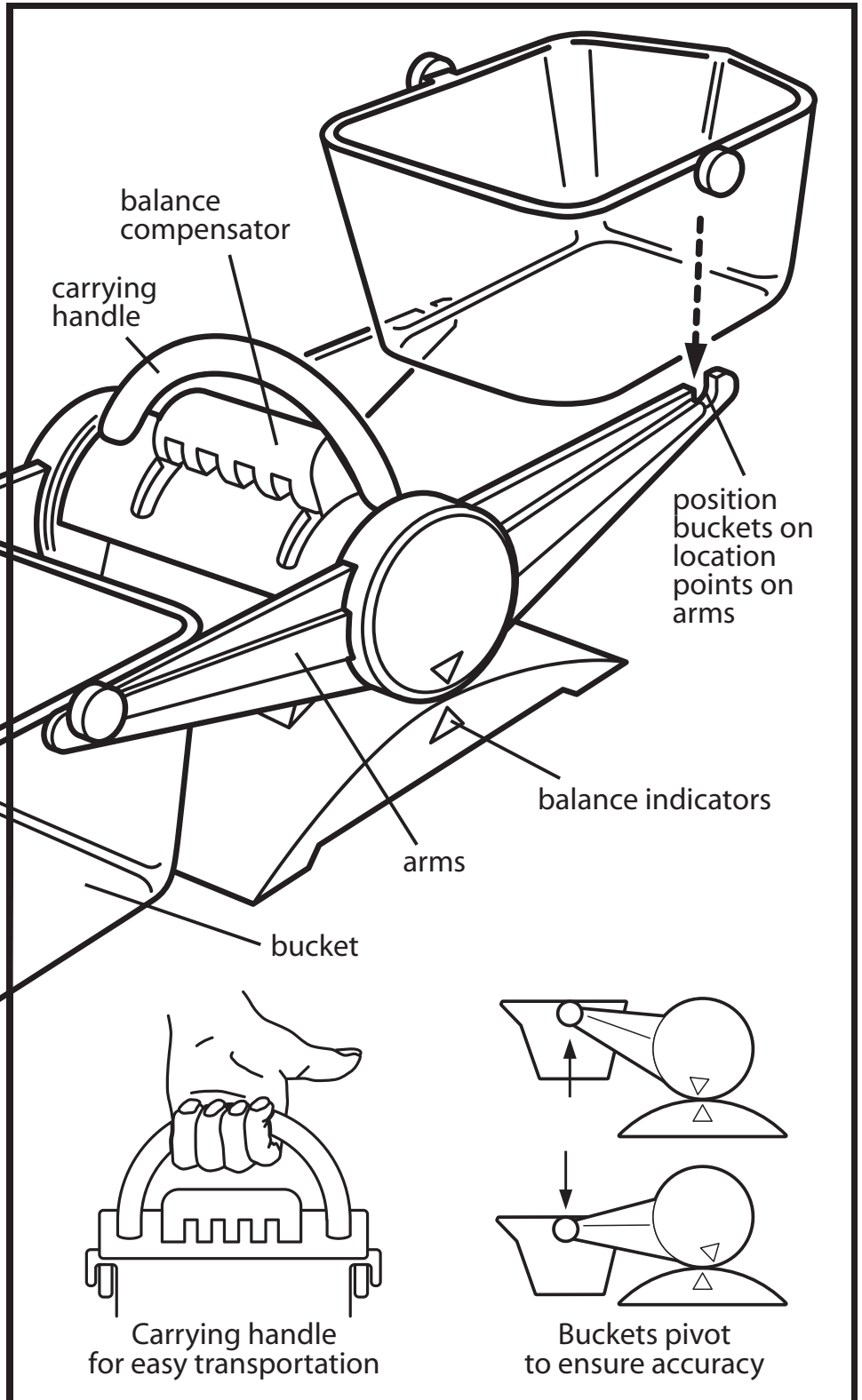
Made in a tough washable material, these accurate scales are sensitive enough for 1g to register a positive movement, but have a capacity to hold up to 1 litre.

The transparent detachable buckets which each have a pouring spout, are designed to give accurate readings even when objects are placed off-centre.

spout for pouring

They are clearly marked with graduations in 100ml increments for volume measurement, which can be read from both inside and outside of buckets.

Contents of buckets are not supplied.



balance compensator

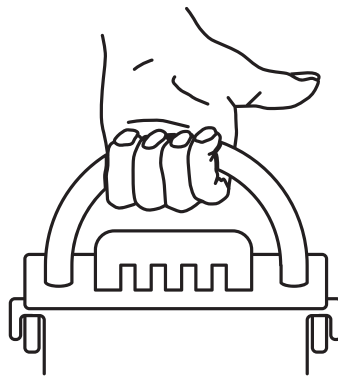
carrying handle

position buckets on location points on arms

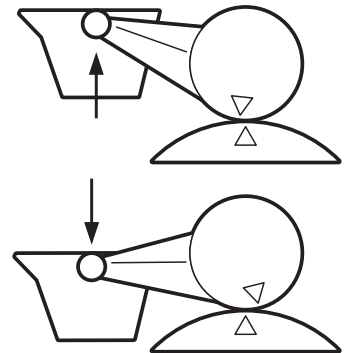
balance indicators

arms

bucket



Carrying handle for easy transportation



Buckets pivot to ensure accuracy



**WARNING:**

retain the information from this pack for future reference. We reserve the right to alter designs and specifications (including colours and materials) if any when such changes are unavoidable. This product conforms to the safety requirements of EN71, ASTM, 16 CFR and The Canadian Hazardous Products (Toys) Regulations.  
MADE IN CHINA

NOT SUITABLE FOR CHILDREN UNDER 36 MONTHS BECAUSE SMALL PARTS MAY CAUSE A CHOKING HAZARD. TO BE USED ONLY UNDER ADULT SUPERVISION. Please



- Products to help you;
  - simple scales
  - bucket balance
- promoting understanding in;
  - science AT's 1, 6 & 8
  - maths AT's 1, 2, 6 & 8
- and progression through key stages/levels for example; exploration of science
  - (KS1) encourage the development of non-standard measuring skills (through manipulating the instrument)
  - (KS2) promoting the raising and answering of questions

knowledge and understanding of science

- (KS2) properties such as mass (weight), volume...should be investigated and measured

using and applying maths

- making and testing predictions
- recording findings and presenting them in oral, written or visual form

measures

- use non-standard measures in ... volume, capacity, weight and time, comparing objects and recognising the need for standard units
- knowing commonly-used units in length, weight and time

working with materials

- (KS1) choose materials and equipment to make objects

developing and communicating ideas

- (KS1) use imagination and personal experiences to generate and explore ideas

## Classroom activities might include

- exploring weight and volume in materials
  - different shapes and sizes
  - different materials, same shapes and sizes
  - comparing and classifying
- looking at ingredients in foods
  - what is in a pancake?
  - measuring quantities required
  - recording data
  - checking for change
  - speculating and hypothesising
  - assess taste, appearance and cost
- developing the best flour/water paste for the job
  - what does a glue do?
  - Can we create our own?
  - water and flour, how much of each?
  - measure by weight or volume?
  - how can it be tested?
- looking at changes of state (flour and water to paste)
  - weighing before change and after
  - charting results and making connections
  - fresh water/sea water/Dead Sea
- using weight to add and subtract
  - why are measuring weights like they are?
  - can we design and make our own? (units and modules)
  - helping toddlers to count
- designing your own balance
  - what do we mean by balance? When do we need it?
  - can you see needs and opportunities?
  - model your own balance (tightrope walker)
  - what are the design issues?
- packaging for volume and weight
  - using packaging to disguise things; making products look bigger/smaller/heavier/lighter
  - comparing packages and contents
  - re-designing for economy
  - what do people think?
- comparing drink containers; volumes and weights
  - consumer research
  - value for money
  - criteria for checking
  - qualitative and quantitative data
  - fair testing/reporting



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