2M020A Overview

Master Measuring Mass in Grams A

Rationale

In this step, pupils build upon measuring mass in kilograms to measure mass in grams. They will begin to recognise the abbreviation 'g' and use digital scales to measure the mass of objects below 100g. They will understand that the scales need to read as zero before they place the object on the scales.

Pupils will use a benchmark to estimate the mass of objects. For example, they hold a 50 gram weight and use that to judge the mass of an object before weighing it to check the accuracy of their estimation.

Key Stem Sentences

- The mass of the ___ is exactly ___ grams.
- An estimation for the mass of the ___ is ___ grams.

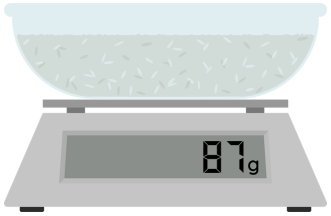
Key Vocabulary

- mass / weigh
- grams / g
- exactly / estimation

Key Equipment

Digital Scales

The mass of the rice is exactly 29 grams.



The mass of the rice is exactly 80 grams.

Weight (to use as a benchmark)

An estimation of the mass of the rice is 60 grams.

Common Errors or Misconceptions

- Pupils may not ensure the scales are at zero to begin with.
- Pupils may make inappropriate estimates of masses.

Pupils will FLOURISH if they can...

- accurately use digital scales to measure the mass of objects in grams.
- make appropriate estimates of the mass of objects in grams.
- explain their understanding using written sentences, concrete apparatus and given representations.