

Master Measuring Mass in Grams B

Rationale

In this step, pupils build upon the practical element of the previous step to record their understanding. They will use the same vocabulary and concepts as they did practically, to state the mass of given objects in pictorial form. However, rather than using digital scales, in this step they will read mechanical scales. They will apply the skills of reading number lines, finding the mid-point and counting in 1s, 2s, 5s and 10s to read mechanical scales, with marked and unmarked intervals.

They will continue to use the abbreviation 'g' to record mass in grams.



Key Stem Sentences

- The value of each major / minor interval is ___g.
- The mass of the ___ is exactly ___g.
- An estimation for the mass of the ___ is ___g.



Key Vocabulary

- mass / weighs
- grams / g
- exactly / estimation
- approximately



Common Errors or Misconceptions

- Pupils may be confused by the different intervals on scales.
- Pupils may misread the scales.



Key Representations

Scales



The value of each interval is 10g. The mass of the ham is exactly 50g.



The value of each major interval is 10g. The value of each minor interval is 5g. The mass of the coleslaw is exactly 95g.



An estimation for the mass of the potato salad is 47g.



Pupils will FLOURISH if they can...

- accurately record mass to exact measurements.
- record mass using the abbreviation 'g'.
- make appropriate estimates of mass in grams.
- explain their understanding using written sentences and mathematical proof.

