

Master Ordering Masses

Rationale

In this step, pupils draw on their understanding of comparing masses to order masses.

Pupils will determine the heaviest and lightest masses, given in grams and kilograms, and order masses from lightest to heaviest and heaviest to lightest.

Pupils will develop their learning by writing missing digits to make ordering correct.



Key Stem Sentences

- ____ is the lightest / heaviest.
- ____g / kg is heavier than / lighter than ____g / kg.



Key Vocabulary

- order
- lighter / heavier
- lightest / heaviest



Common Errors or Misconceptions

- Pupils may use the vocabulary incorrectly when ordering.
- Pupils may confuse size with mass, assuming that the largest object is the heaviest, or the smallest object is the lightest.



Key Representations

Scales



The mass of the cat food is 4kg. The mass of the dog food is 2kg. The mass of the budgie food is 1kg. 4kg is heavier than 2kg and 1kg. 2kg is heavier than 1kg. The cat food is the heaviest. The budgie food is the lightest.



Pupils will FLOURISH if they can...

- identify the lightest and heaviest mass.
- order mass from the lightest to the heaviest or from the heaviest to the lightest.
- complete missing digits to make the ordering correct.
- explain their understanding using written sentences and mathematical proof.

