Weighing scales

Strand

Measuring

Learning objective

Know the relationship between kilograms and grams; choose and use appropriate units to estimate, measure and record measurements

Type of starter

Rehearse

Whiteboard tools

- Drag and drop items on the left of the screen into the pan.
- Turn the digital readout on or off on the analogue scale, as required.
- Select 'options' to make changes to the face of the scales, such as removing the numbers, or altering the number of subdivisions.

What to do

The aim of this starter is to rehearse estimating the weight of an item in grams and kilograms. Ask a child to choose an item from the left of the screen then ask the class to vote on whether they think it will it weigh more or less than a kilogram. Discuss the difference between a kilogram and a gram and which objects they would estimate would weigh more or less than a kilogram. Test the children's predictions by dragging and dropping the items onto the scales. Ask them also to predict how many of a particular item would be needed to make 1kg (for example, two cartons of milk weigh $1 \text{kg} - 500 \text{g} \times 2$).

Differentiation

Less confident: ask the children to read the weight in kilograms and grams. Turn on the digital readout to support the children with this activity.

More confident: ask the children to estimate how many of the smaller items (for example, apples) would weigh the equivalent of a kilogram. Ask them to make up different combinations of items to make 1kg exactly (for example, four bags of crisps, one loaf of bread and one bunch of grapes weigh exactly 1kg).

Key questions

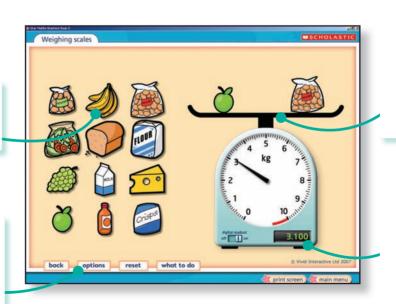
- How much does this item weigh in grams? What does it weigh in kilos?
- We know that ___ weighs ___, so how many would be needed to make a kilogram?

products

Drag food items onto the scales

options

Set maximum weight, subdivision, and whether or not to show numbers on analogue scale



scales pan

Add or remove items by dragging them on or off pan

digital readout

Can be turned on or off, on analogue scales, to reveal exact weight of items