

# 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 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 1 kg (for example, two cartons of milk weigh 1 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 1 kg exactly (for example, four bags of crisps, one loaf of bread and one bunch of grapes weigh exactly 1 kg).

### 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