

Lesson 47 MEASURES

Weight – estimate and weigh in kg and g on a scale

WHAT THIS LESSON TEACHES

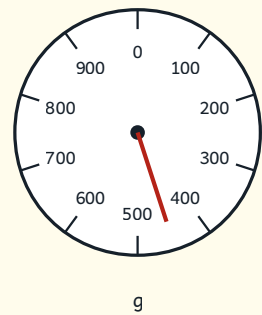
Weight tells us how heavy something is, and we read it on a weighing scale. Light things like an apple are counted in grams (g); heavy things like a bag of sugar are counted in kilograms (kg). 1000 g is the same as 1 kg.

- an apple is about 200 g
- a bag of sugar is about 1 kg (1000 g)

MODEL THIS ON THE BOARD

READING A WEIGHT IN GRAMS

- 1 The scale is marked in **100 g** steps from 0 to **1000 g**.
- 2 The needle sits halfway between **400** and **500**.
- 3 Halfway is **450 g**, so the weight is **450 g**.



DISCUSSION STARTER

REFLECT Does hefting an object first help your estimate before you read the scale?

ANSWER KEY

a) 200 g

b) 650 g

Q1: 300 g

Q2: 750 g

a) **Always** — A kilogram is defined as exactly 1000 grams.

b) **Sometimes** — A big bag is over a kilo, but a small bag may be lighter and read in grams.

c) **Never** — An apple is about 200 g while a bag of sugar is 1000 g, so the apple is always lighter.

d) **Always** — A feather is very light, so grams, the small unit, always suit it best.

EXTENSION SHEET · STRETCH ANSWERS

S1: 18 cm

S2: 12 cm

S3: 7 cm

S4: 25.5 cm

S5: 7400000 cm

Investigation: Kilogram detective — open-ended; scan pupils' working for valid solution paths rather than a single answer.