

Lesson 47 MEASURES

Weight: estimate and weigh in kilograms and grams

CURRICULUM ALIGNMENT

MEA.MSR.3a

compare, estimate and measure length, weight, capacity, area and volume using appropriate instruments and record and communicate appropriately.

MEA.MSR.3b

identify the relationship between equivalent units of measurement, and rename measures using equivalent units.

INTERACTIVES Measurement Rulers · challenge, display

WHAT THIS LESSON TEACHES

Weight is measured in grams or kilograms on a scale. 1 kg equals 1000 g.

→ A bag of sugar weighs about 1 kilogram.

→ An apple weighs about 150 g.

MODEL THIS ON THE BOARD

CONVERT KG TO G

- 1 Start with the weight in kilograms.
- 2 Multiply by 1000 to change to grams.
- 3 3 kg becomes **3000** g.

DISCUSSION STARTER

REFLECT Did feeling the weight in your hands help your estimate? When does that work best?

ANSWER KEY

a) 150 g

b) 350 g

c) 1 kg

Q1: 0.15 kg

Q2: 1000 g

Q3: 0.35 kg

Q4: 3000 g

Q5: 2.5 kg

Q6: 1 kg

a) **Always** : This is the exact definition of the units.b) **Never** : An apple is much lighter, around 150 g.c) **Sometimes** : It depends on what is inside the bag.d) **Sometimes** : True for some packets of pasta; false for a 1 kg bag of flour.