

Diving into Mastery - Diving

Adult Guidance with Question Prompts

Children begin to measure in grams for the first time. In this activity, they count in fives and tens to read the scales.

What does each interval on the scale represent?

Is each scale the same? How are they different?

How heavy is the apple?

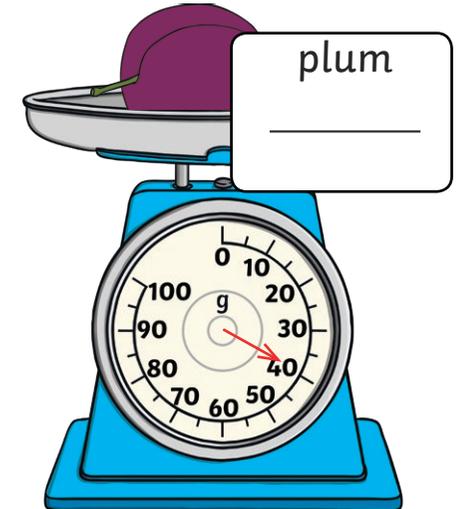
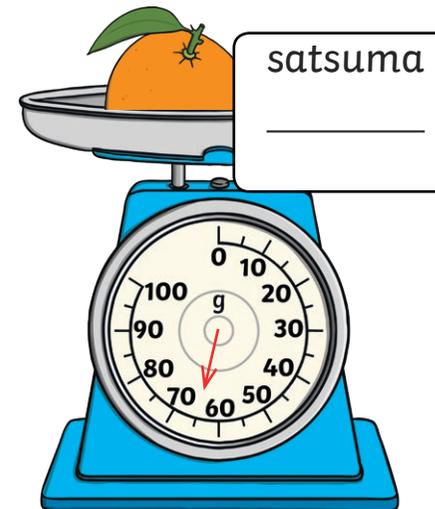
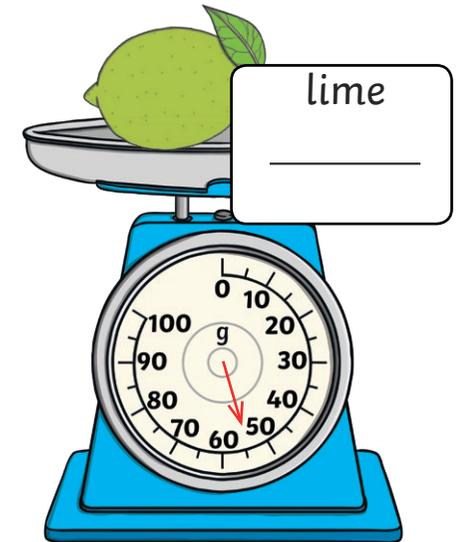
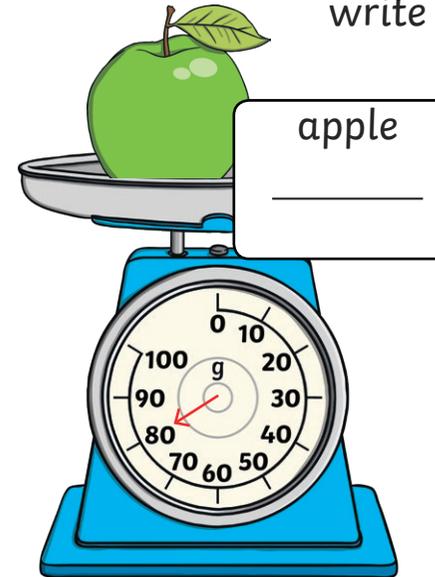
What can we write to show we are measuring in grams?

Look at the scale with the satsuma on it. The pointer is in between the labelled intervals. How can we tell how much this weighs?

Measuring Mass in Grams



Write the mass of each piece of fruit. Remember to write the units!



Order the fruits from lightest to heaviest.

Diving into Mastery - Deeper

Adult Guidance with Question Prompts

Children reason about weight by comparing two objects with the weights given in grams. They read scales with intervals of 2g.

What is the mass of each pencil case?

Which is heavier? How much heavier is it?

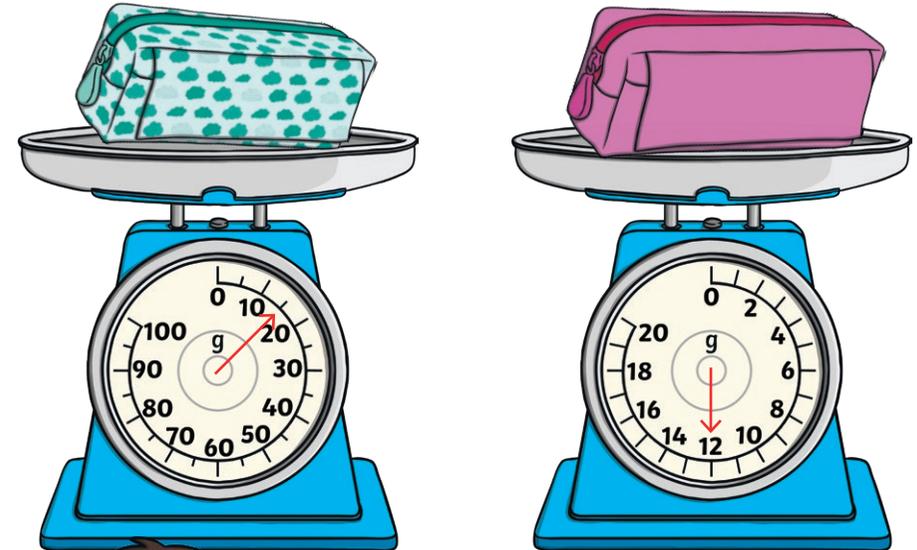
How can we work out the difference in mass?

What two items can you find in the classroom to measure and compare? Which one is heavier/lighter? How do you know?

Measuring Mass in Grams



Adam is measuring the mass of two pencil cases.



The pink pencil case has a greater mass than the spotty pencil case.

Is he correct? Prove it!

What is the difference in mass between the two pencil cases?

Can you find two items in your classroom to measure in grams? What is the difference between their masses?

Diving into Mastery - Deepest Adult Guidance with Question Prompts

Children solve problems involving weighing in grams. They will also need to use their calculating skills.

What is the mass of a large tin of beans?

What do you notice about the scales? Are they balanced?

How many small tins have the same mass as one large tin?

So what is the mass of one small tin? Explain how you know.

What is the mass of the three packets altogether?

How heavy are the crisps and nuts together?

How can you use that to work out the mass of the raisins?

Which classroom objects do you think are lighter than 100g?

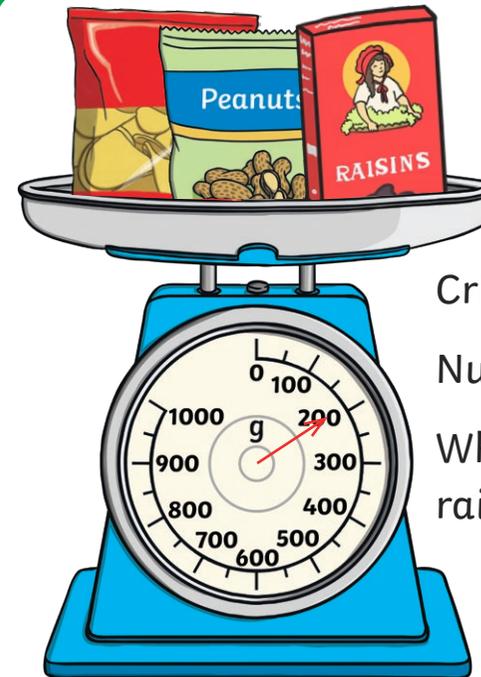
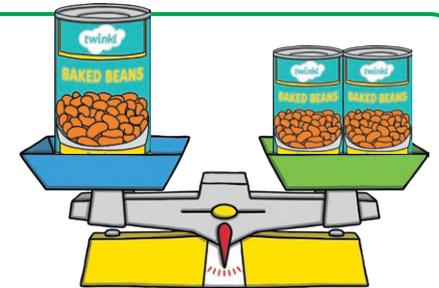
How could you use a 100g weight to check?

Measuring Mass in Grams



A large tin of beans has a mass of 100g.

What is the mass of a small tin?



Crisps have a mass of 50g.

Nuts have a mass of 70g.

What is the mass of the raisins?

Use a 100g weight to help you find three things in the classroom that you think feel lighter than 100g. Use a scale to check.