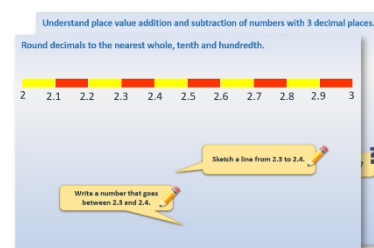


Week 6, Day 4

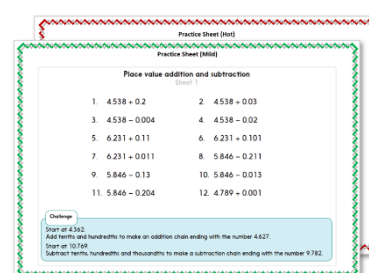
Weight (1)

Each day covers one maths topic. It should take you about 1 hour or just a little more.

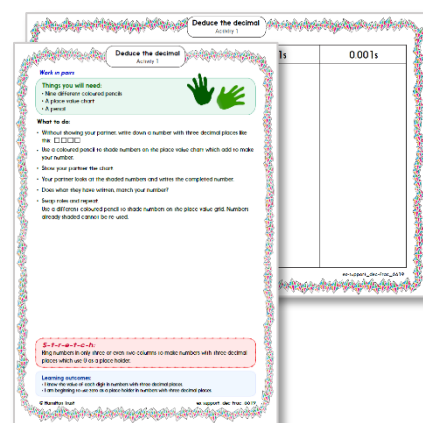
1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



2. Tackle the questions on the **Practice Sheet**. There might be a choice of either **Mild** (easier) or **Hot** (harder)! Check the answers.



3. Finding it tricky? That's OK... have a go with a grown-up at **A Bit Stuck?**

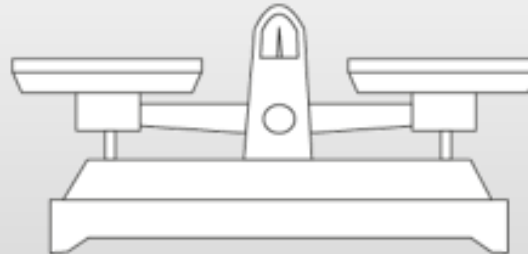


4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the **Investigation**...

Learning Reminders

Know that weight can be measured in kg and g.

Pick up a large bag of cotton wool, a roll of kitchen paper and a bag of pasta. Which do you think is the **heaviest** and which the **lightest**? How could we check?



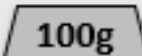
We can use a **pan balance** both to directly compare the weight of any pair of objects and also to find the number of wooden blocks each weigh.

Learning Reminders

Know that weight can be measured in kg and g.

Shopkeepers, farmers and factories which package food don't use wooden bricks or marbles to weigh food, they use **grams and kilograms**. This makes weights easy to compare because they all use the same **units of measure**.


1g


100g

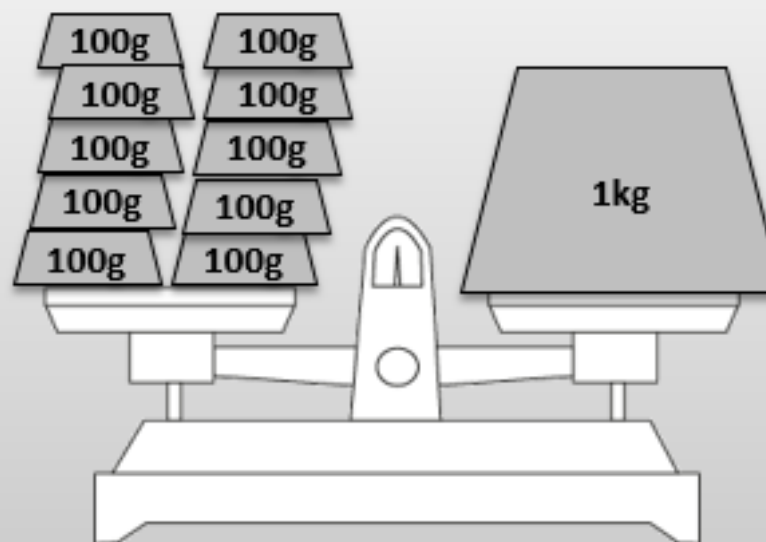

1kg

Carefully hold a kilogram and a gram weight (or items that weight 1kg and 1g). Discuss how light the gram feels and how very heavy the kilogram is. Hold a 100g weight (or something that weighs 100g). This weighs the same as 100 of the little grams! The kilogram weight weighs the same as 1000 of those little gram weights!

Learning Reminders

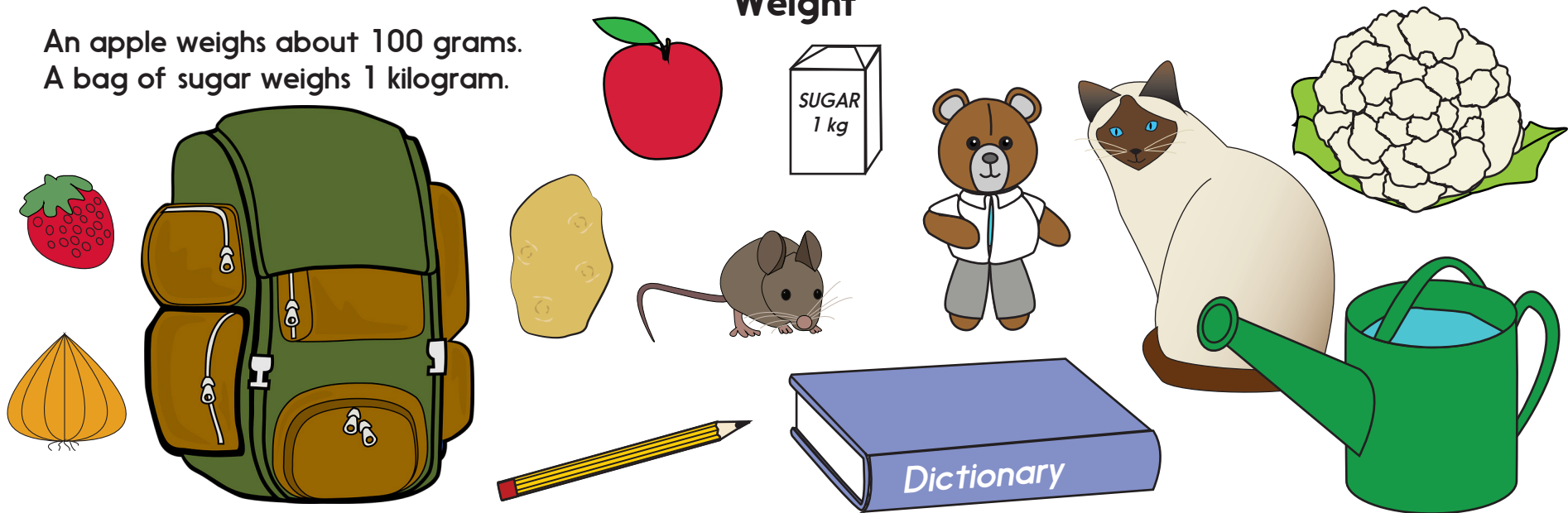
Know that weight can be measured in kg and g.

We can use the pan balance to show that ten 100g weights are equal to 1kg. **1000g is the same as 1kg.** We could use the pan balance to weigh a shoe to the nearest 100g.



Practice Sheet Mild Weight

An apple weighs about 100 grams.
A bag of sugar weighs 1 kilogram.



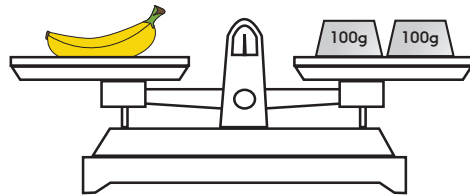
Draw the things you think will weigh less than 100 grams	Draw the things that might weigh about 1 kilogram	Draw the things you think will weigh more than 1kg

Practice Sheet Hot Weight

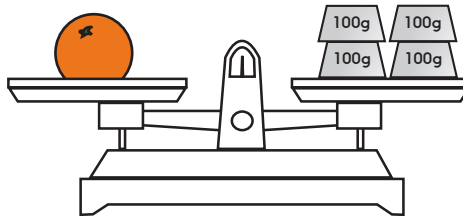
How many 100g weights balance each item?

Write the number of weights. Count in steps of 100 to find the weight in grams.

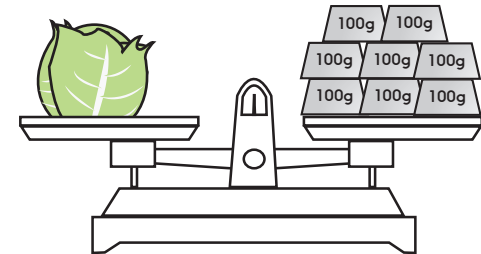
The first one is done for you.



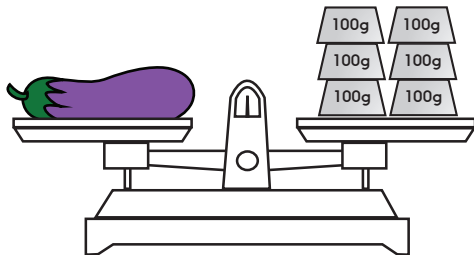
2 weights 200 grams



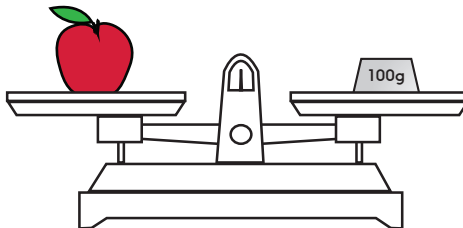
_____ weights _____ grams



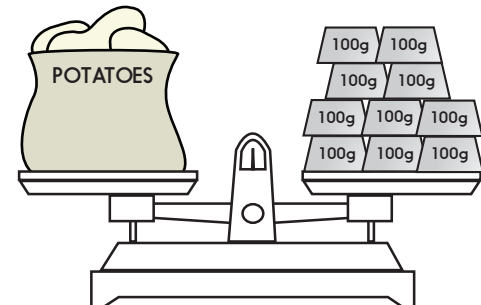
_____ weights _____ grams



_____ weights _____ grams



_____ weights _____ grams



_____ weights _____ grams

Practice Sheet Hot Weight

Draw each item weighed in the correct place in the table below.

Lighter than 500 grams	Heavier than 500 grams

Challenge

Write some items that make the same weight, e.g. 8 apples = 1 cabbage.

Practice Sheets Answers

Weight (mild)

Draw the things you think will weigh **less than** 100 grams,
e.g. strawberry, apple, onion, pencil, mouse, potato

Draw the things that might weigh **about** 1 kilogram,
e.g. Bag of sugar, book, cauliflower, teddy bear

Draw the things you think will weigh **more than** 1kg,
e.g. rucksack, cat, watering can

Weight (hot)

200g 400g 800g
600g 100g 1000g or 1kg

<i>Lighter than 500g</i>	<i>Heavier than 500g</i>
<i>banana = 200g orange = 400g apple = 100g</i>	<i>cabbage = 800g aubergine = 600g bag of potatoes = 1kg</i>

Challenge

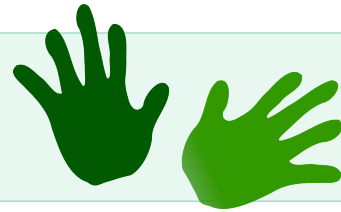
Accept any equality, e.g. 2 bananas = 1 orange
2 oranges = 1 cabbage
1 bag of potatoes = 2 bananas + 1 aubergine, etc.

A Bit Stuck?

Ups and downs

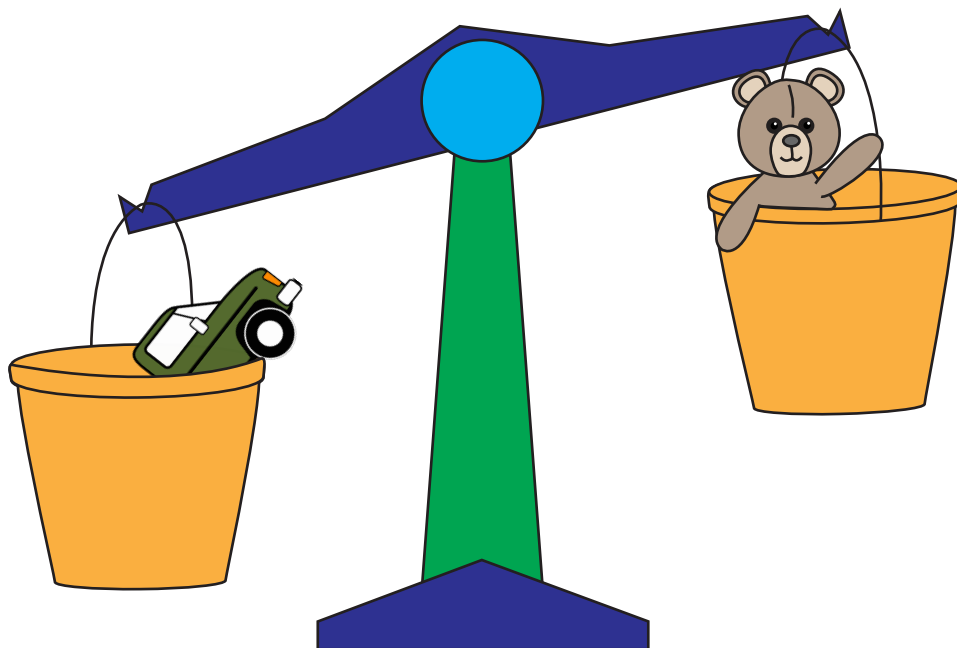
Things you will need:

- Toys



What to do:

- Choose two toys.
- Hold a toy in each hand with your arms outstretched - you be the balance! Guess which is heavier. Which arm needs to move up and which needs to move down?
- Repeat with other pairs of toys.



Learning outcomes

- I can compare the weights of two toys.

Investigation

Ten to the kilo

You will need:

- Objects weighing:
 - 1kg (e.g. a full bag of sugar)
 - 1/2 kg (e.g. a 500ml bottle of water. A pack of butter is also close at 454g)
- A range of small household objects

1. Feel the kilogram weight – pass it between you so everyone can feel it. Be careful not to drop it!
2. Feel the $\frac{1}{2}$ kg weight. This is half a kilo or 500 grams.
3. Find exactly ten objects that weigh precisely one kilogram.
You will need to weigh different things to check out their weights.
You will also need to use a lot of estimation!
4. Discuss what sorts of things you can use. Try fairly heavy things like books or shoes or light things like socks or paintbrushes.
5. When you think you have exactly 10 things that weigh exactly a kilogram ask an adult to check!

	Book 200g
	Shoe 350g
	Pencil 15g

Challenge

Can you find 10 things that weigh exactly 100 grams?