

w.b 18.5.20

*1. Today we are going to
be learning about
measuring length.*

Can you read the words that we use when describing length?

Length Language

short

equal

tallest

shorter

tall

longer

measure

longest

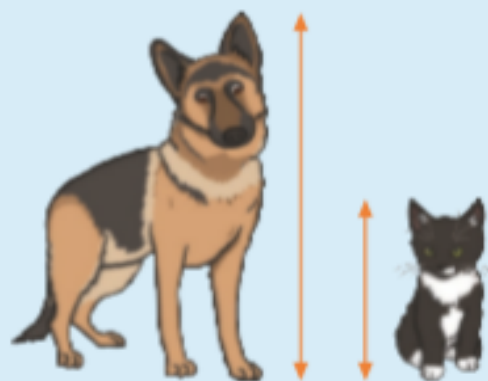
shortest

distance

Height

The dog is **taller** than the cat.

The cat is **shorter** than the dog.



tallest

shortest

Length



The car is **shorter** than the train.

The train is **longer** than the car.

shortest

longest



Compare Lengths and Heights



Use these words to compare the heights.

I am

than you.



taller

shorter

I am

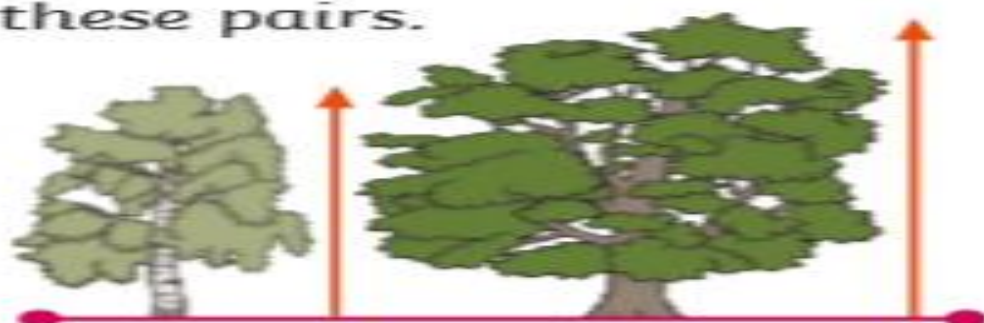
than you.



Which pencil is the longest? Which pencil is the shortest?



Compare these pairs.



length

height

Useful words:

taller

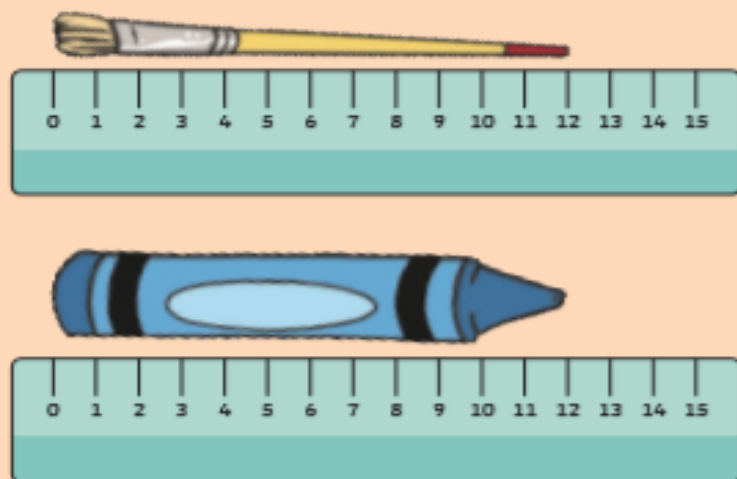
shorter

longer

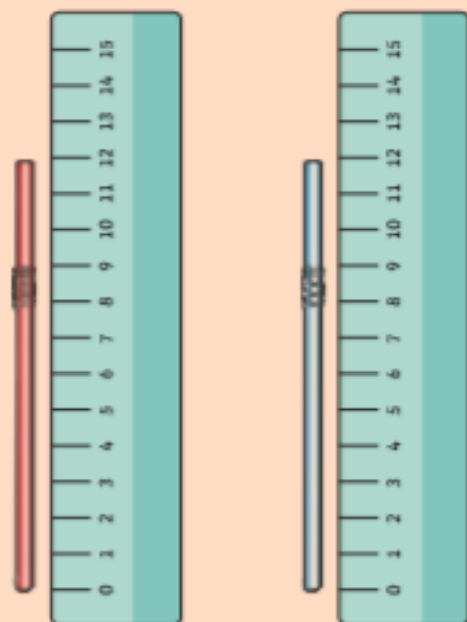
same

Length and Height

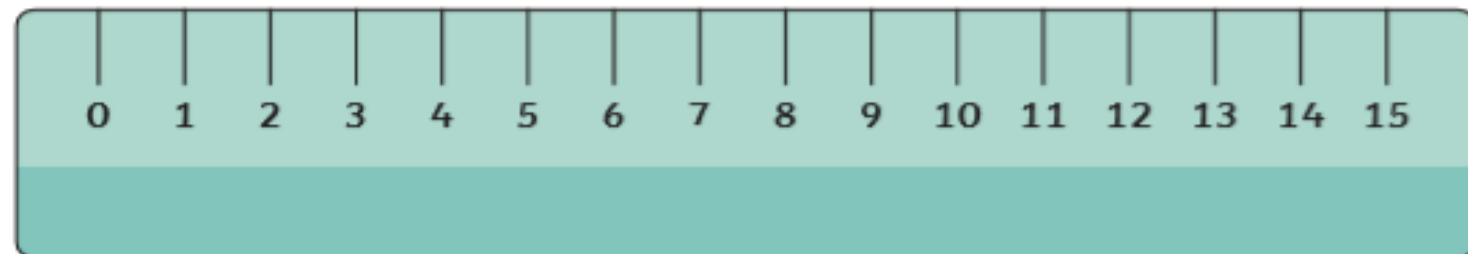
The same length.



The same height.



This pen is 6 cubes long.



This ruler is to scale.

How to measure objects using a ruler

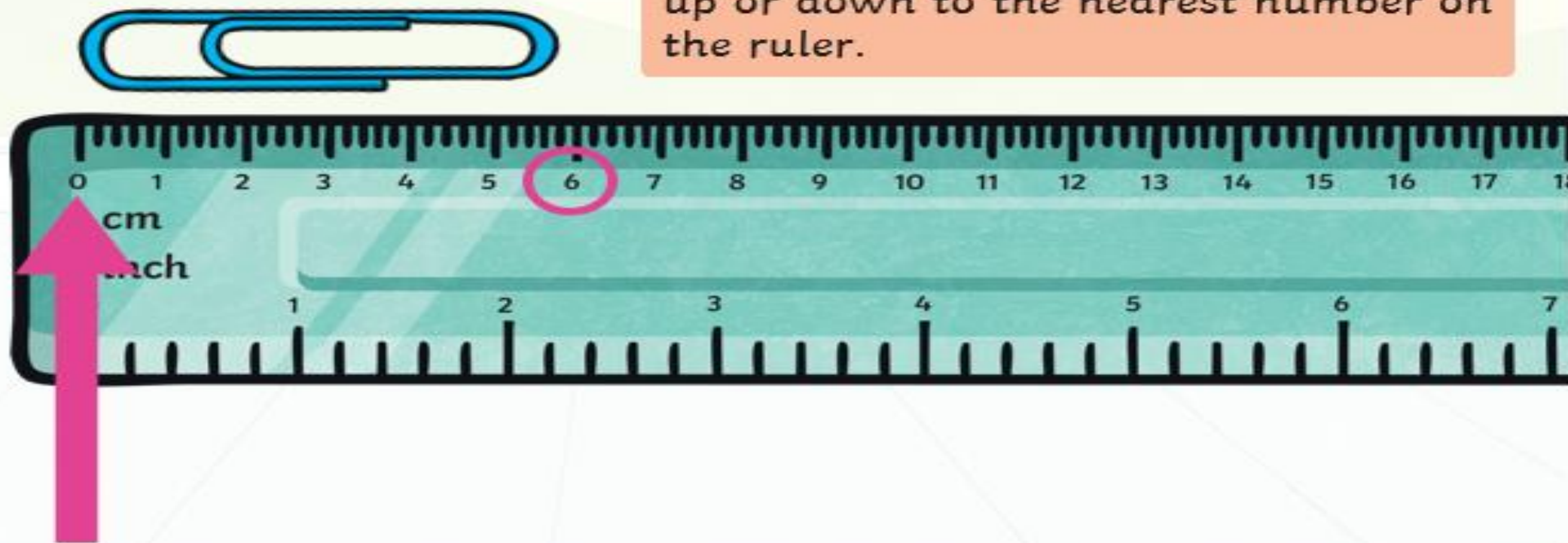
Step 1

Place the 0cm mark on the ruler at one end of the object you are measuring. Make sure you are using the centimetre scale. Do not measure from the end of the ruler.



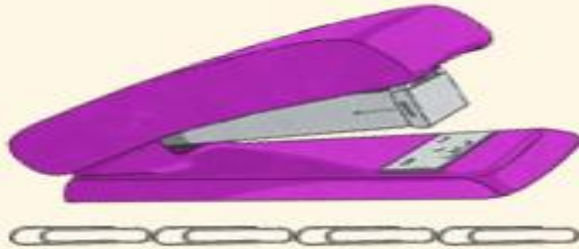
Step 2

To find the length of the object to the nearest centimetre, round the length up or down to the nearest number on the ruler.

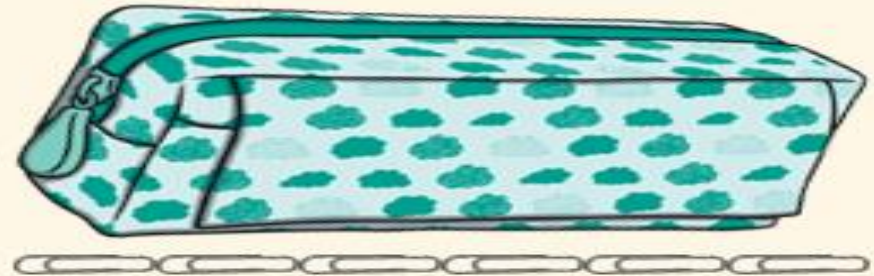


If your child is not confident when using a ruler to measure in centimetres (standard units), they can use non-standard units of measurement such as paper clips or bricks.

Measure and compare the length of the objects.



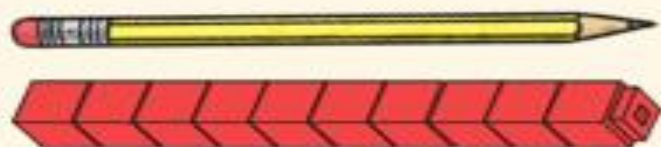
The stapler is 4 paperclips.



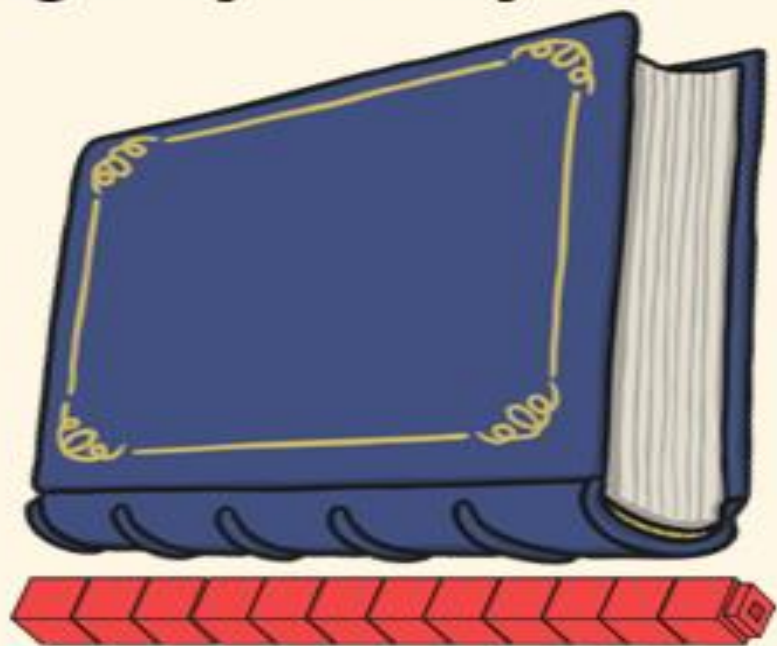
The pencil case is 6 paperclips.

The stapler is shorter than the pencil case.

Measure and compare the length of the objects.



The pencil is
10 interlocking cubes.



The book is
12 interlocking cubes.

The book is longer than the pencil case.

Activity- Look at a standard 30cm ruler. Talk about what you can see.

How big is one centimetre?

How many centimetres long is the ruler?



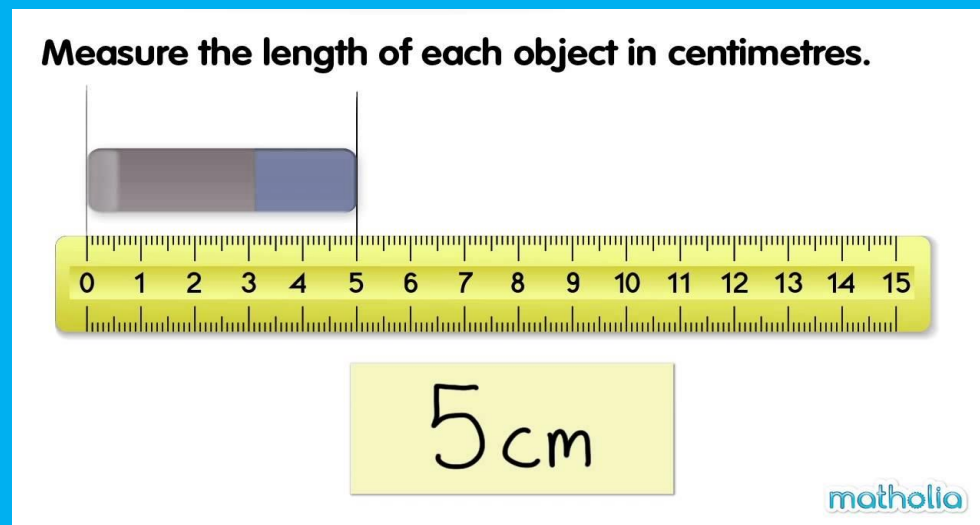
Look for objects in your house or outside.

Put them into two groups. Objects that you think are shorter than 30cms and objects that you think are longer/taller than 30cms. Draw a picture and write a label for the objects.

E.G

Shorter than 30cms	Longer/Taller than 30cms
 pencil	 table
 spoon	 tree

2. *Now use a ruler to accurately measure a variety of objects at home.*



Here are some examples of things that you might choose to measure the length of:



Fork = cms



My hand = cms



Toothbrush = cms



A banana = cms



My book = cms



A pencil = cms

3. *How many of the challenges can you complete?*



Don't forget to send your photographs into school!

Measuring Length

How long is a stick of spaghetti? Is it the same length after it has been cooked?



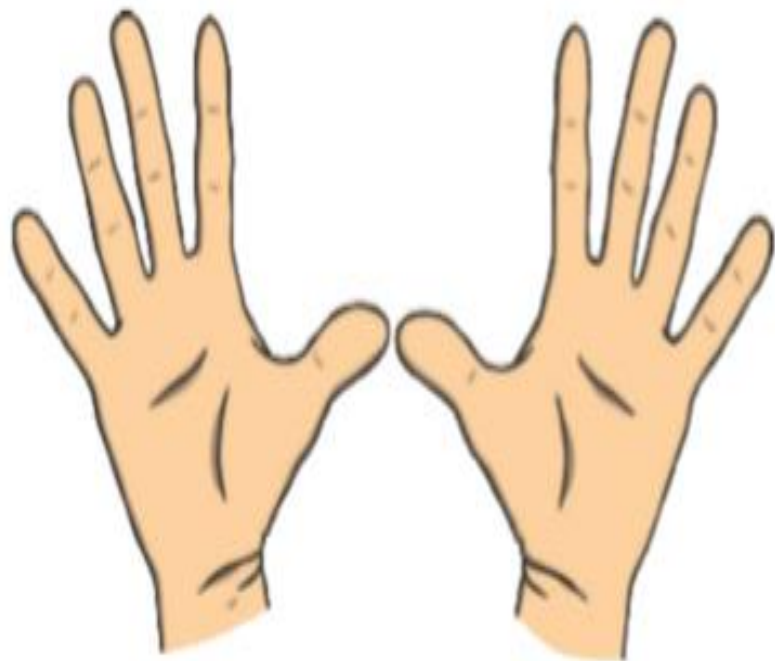
Measuring Length

Measure how tall you are and mark your height with masking tape on the floor. Place objects side by side next to your height. Can you find a combination of objects that measures the same length as your height?



Measuring Length

Who has the longest finger?
Can you find out?



Measuring Length

How long is a £5 note?
Are all notes the same size?



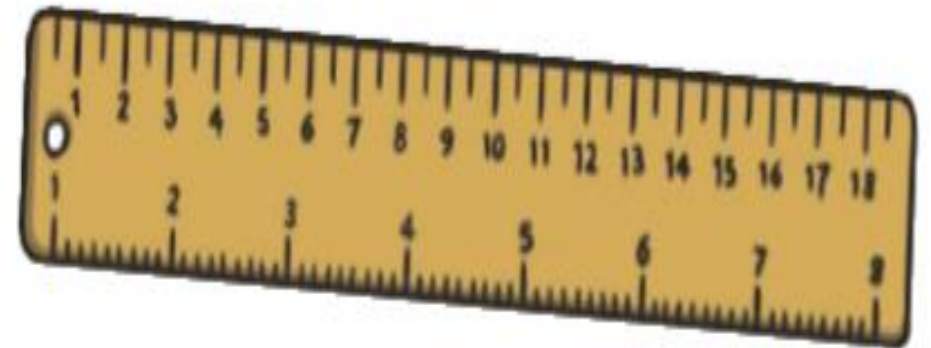
Measuring Length

Take a ball of string and cut off a piece as close to a metre as you can estimate. Ask someone else to do the same. Who was the closest? Repeat with other measurements.



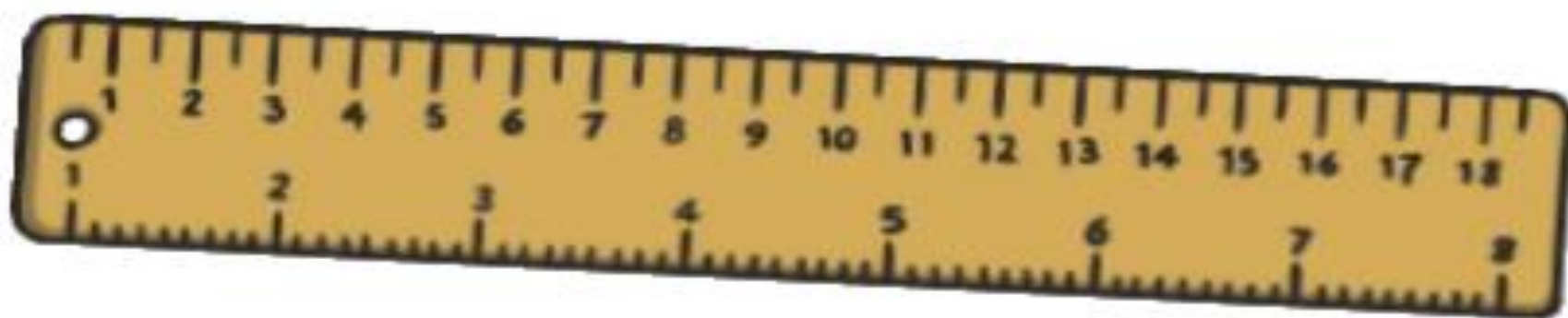
Measuring Length

How many things can you find which measure exactly 15 cm?



Measuring Length

Can you make your own ruler?

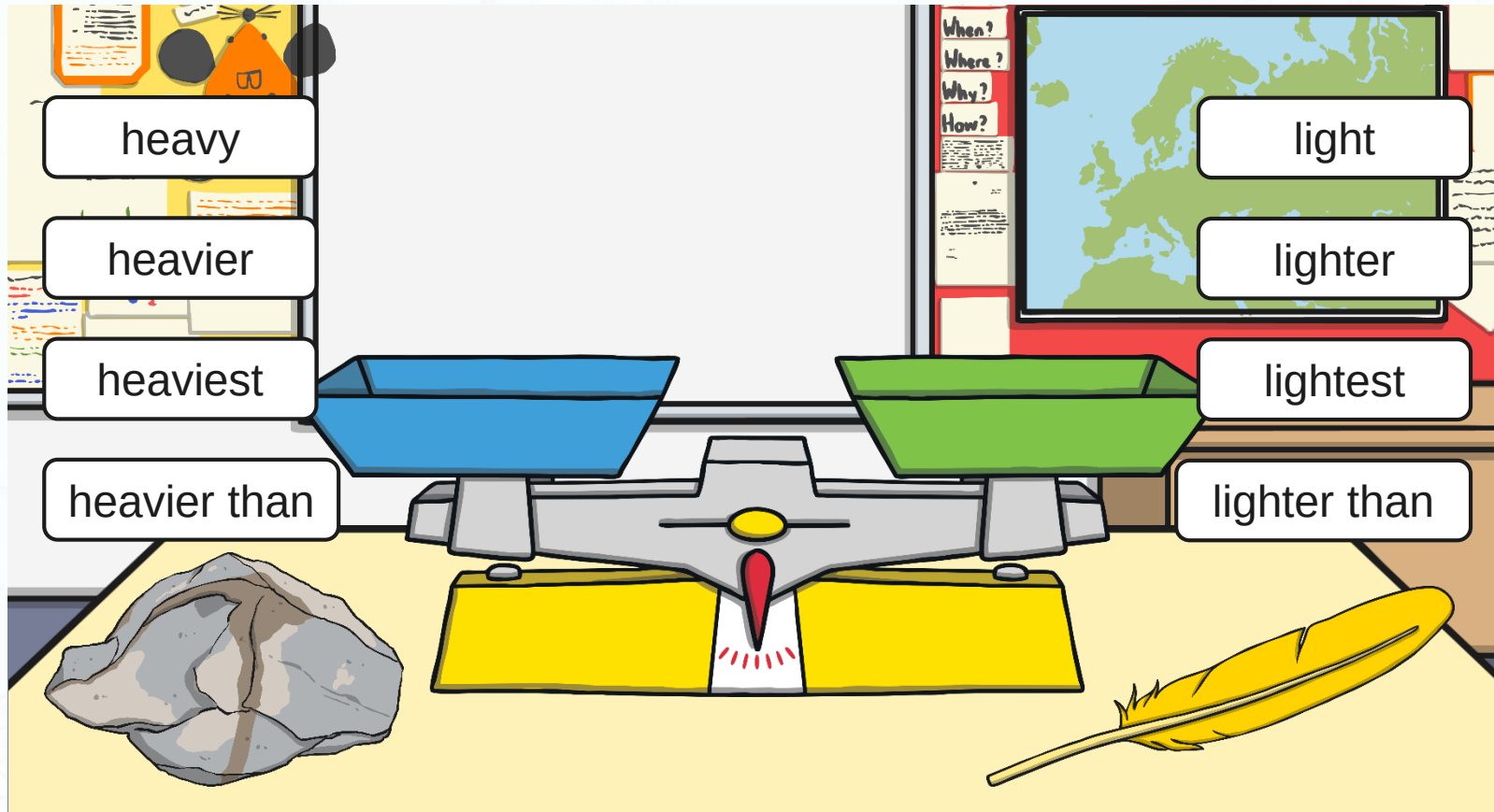


*4. Today we are solving
problems involving mass
or weight.*



Weight

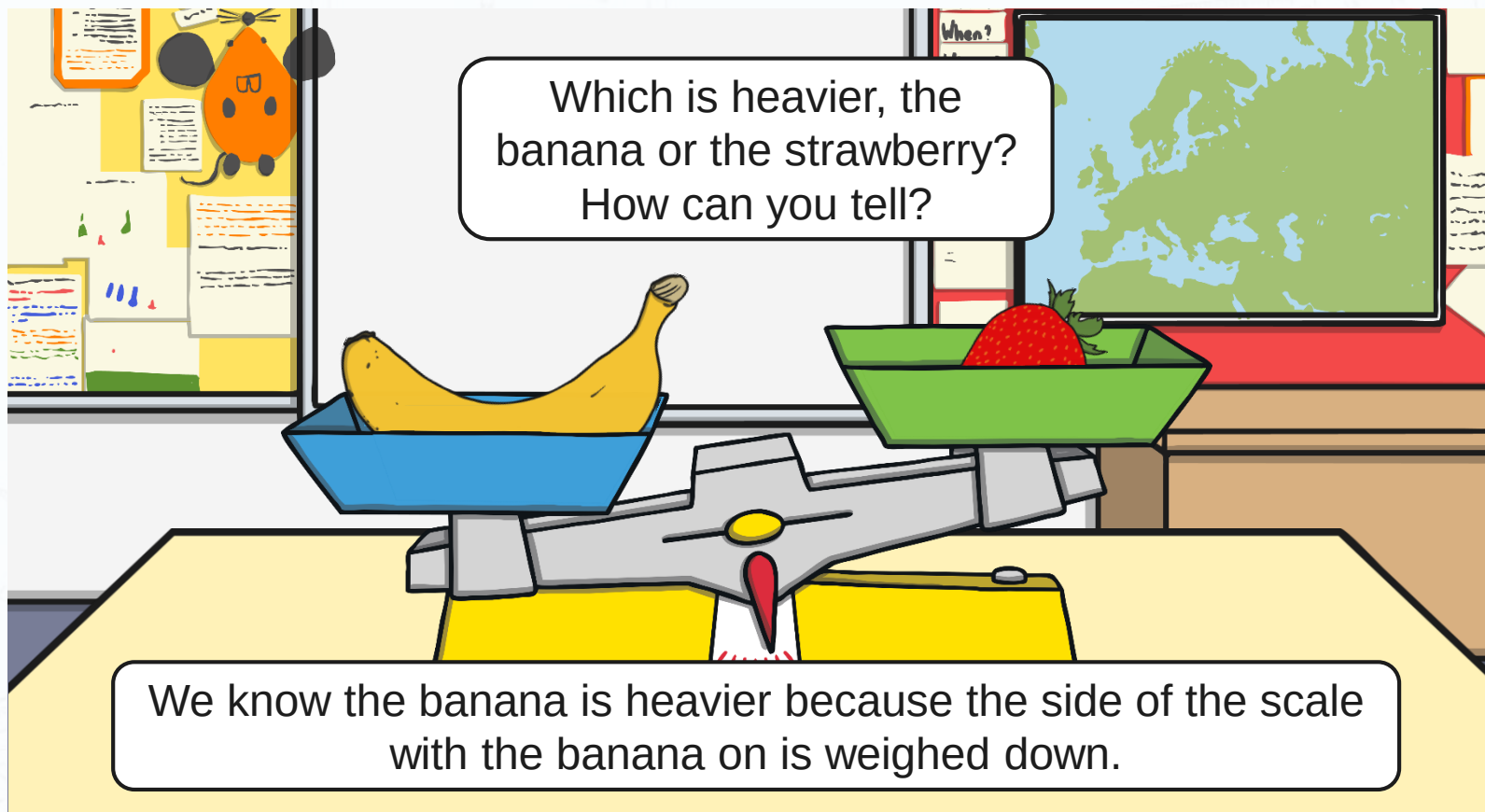
When we talk about weight, we mean how heavy or light something is.
Sometimes we call this mass.



Weight



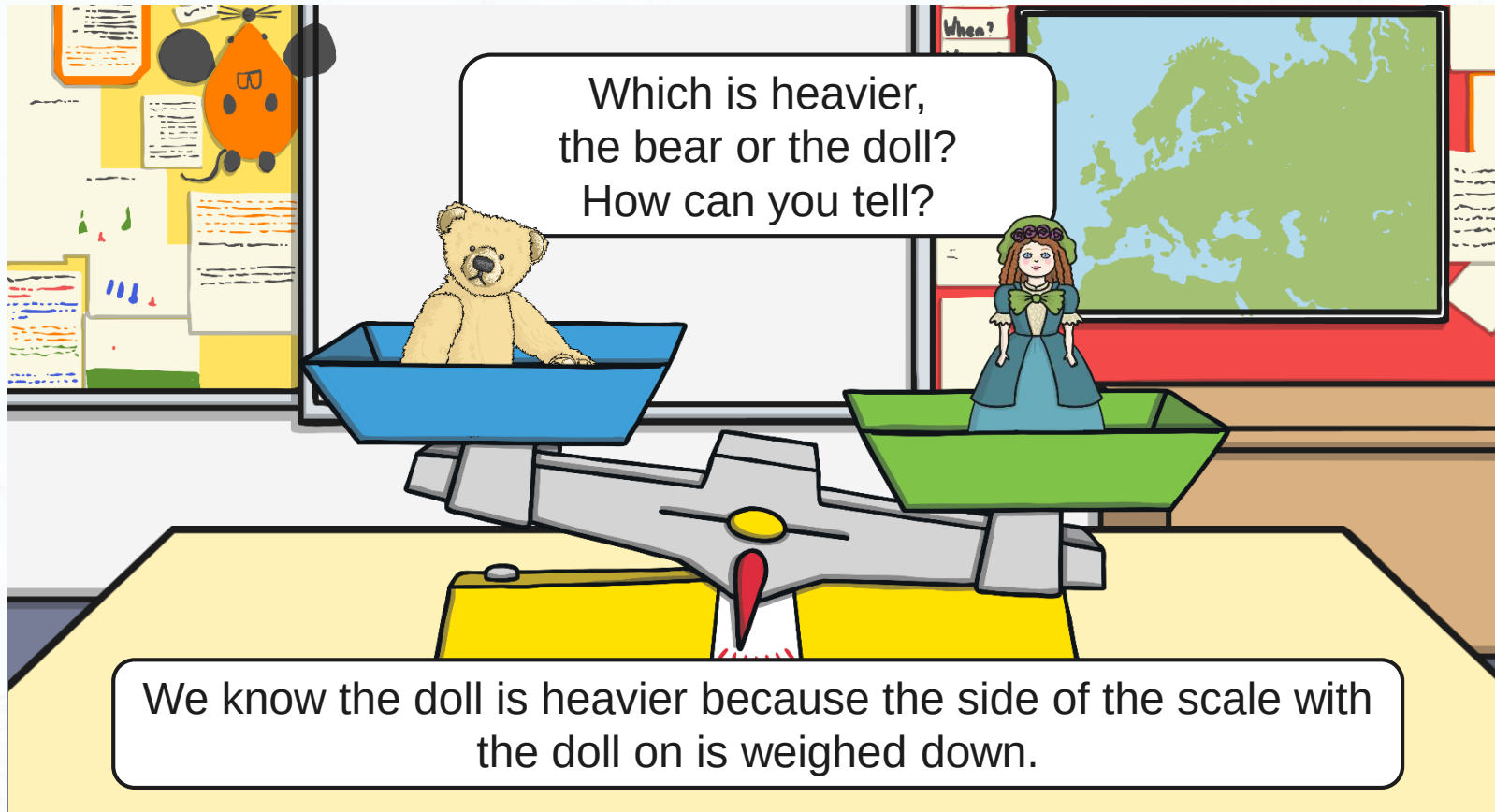
Balance scales show us how heavy things are compared to other things.



Weight



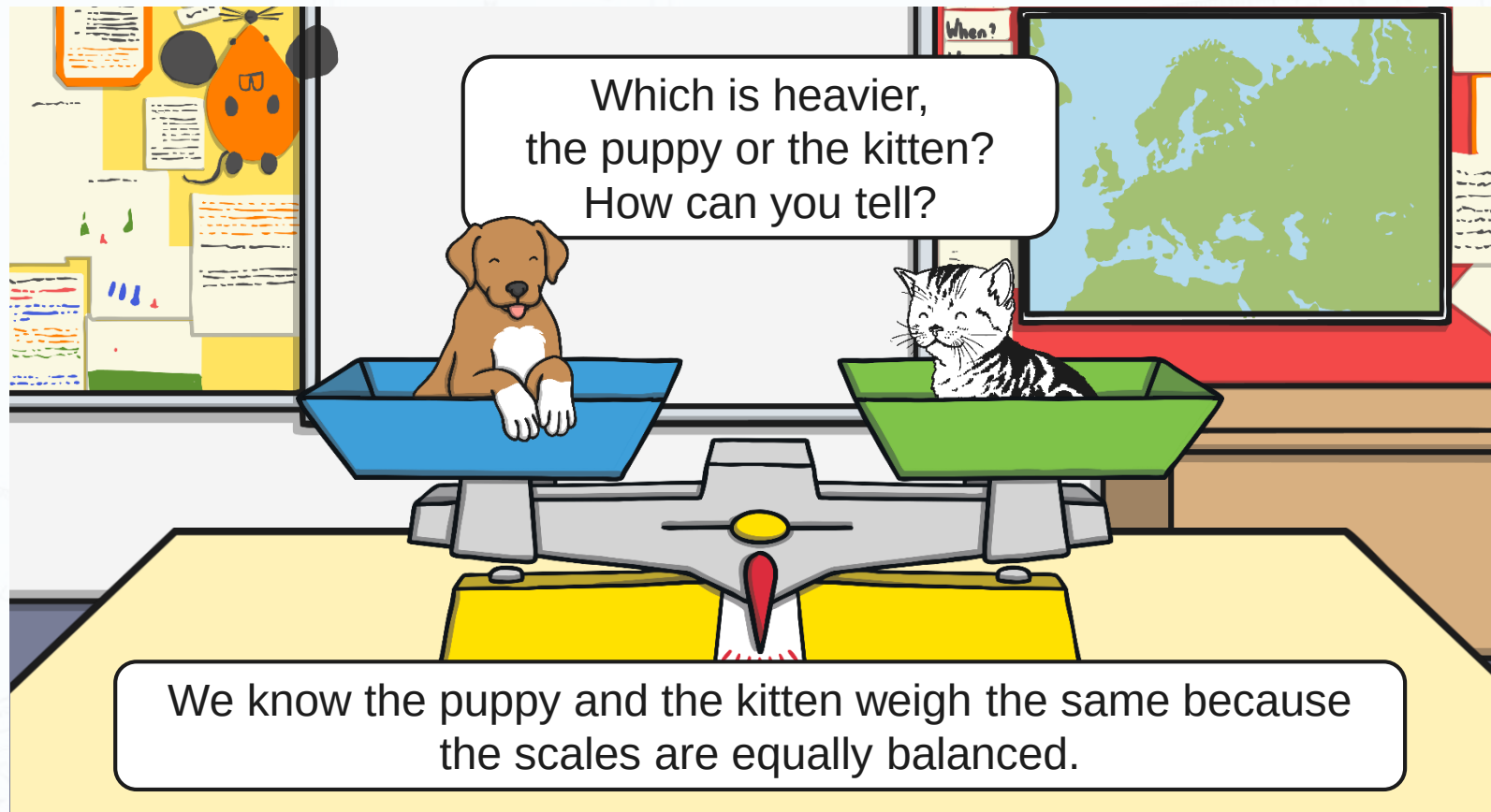
Balance scales show us how heavy things are compared to other things.



Weight

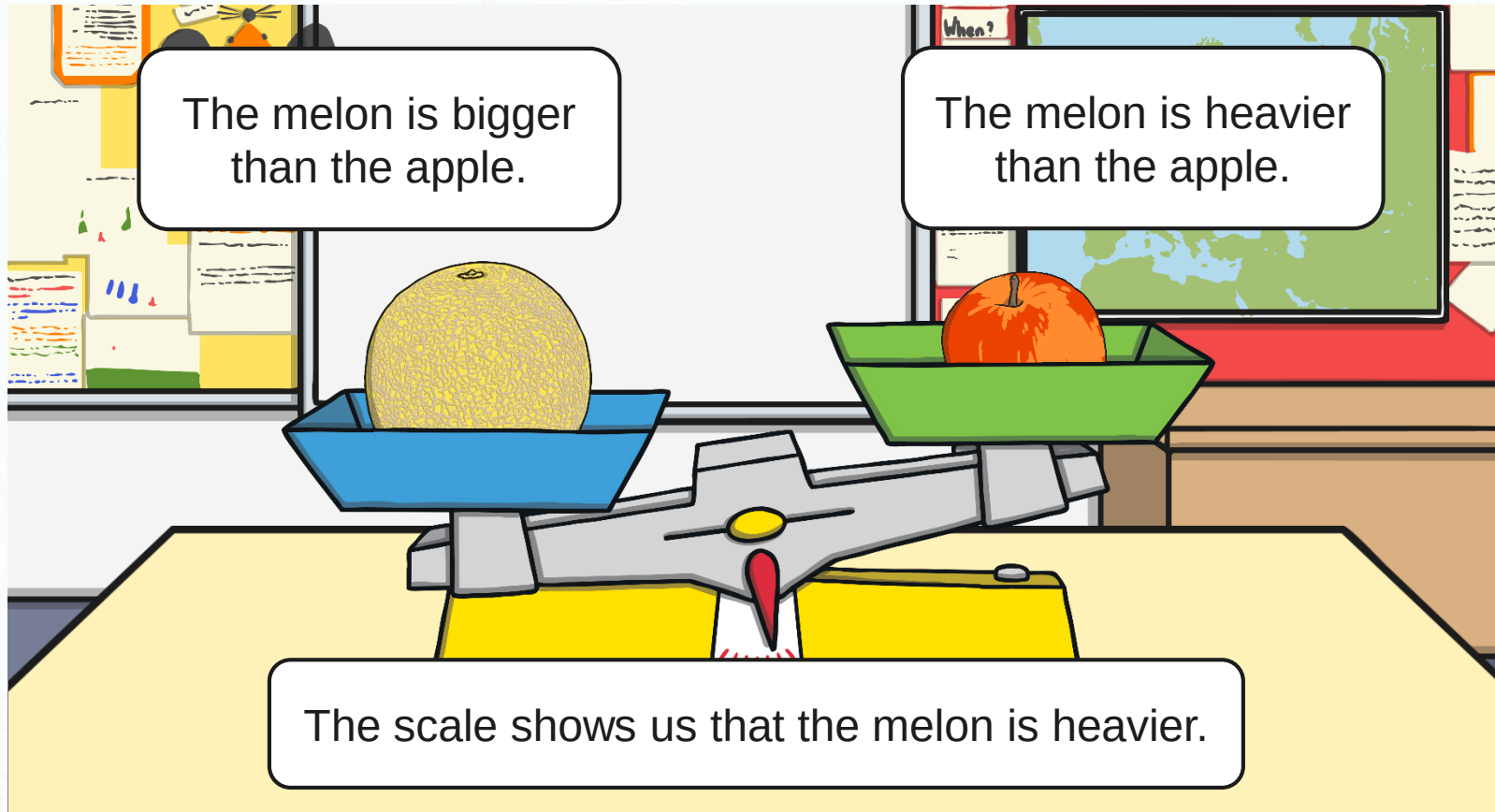


Balance scales show us how heavy things are compared to other things.



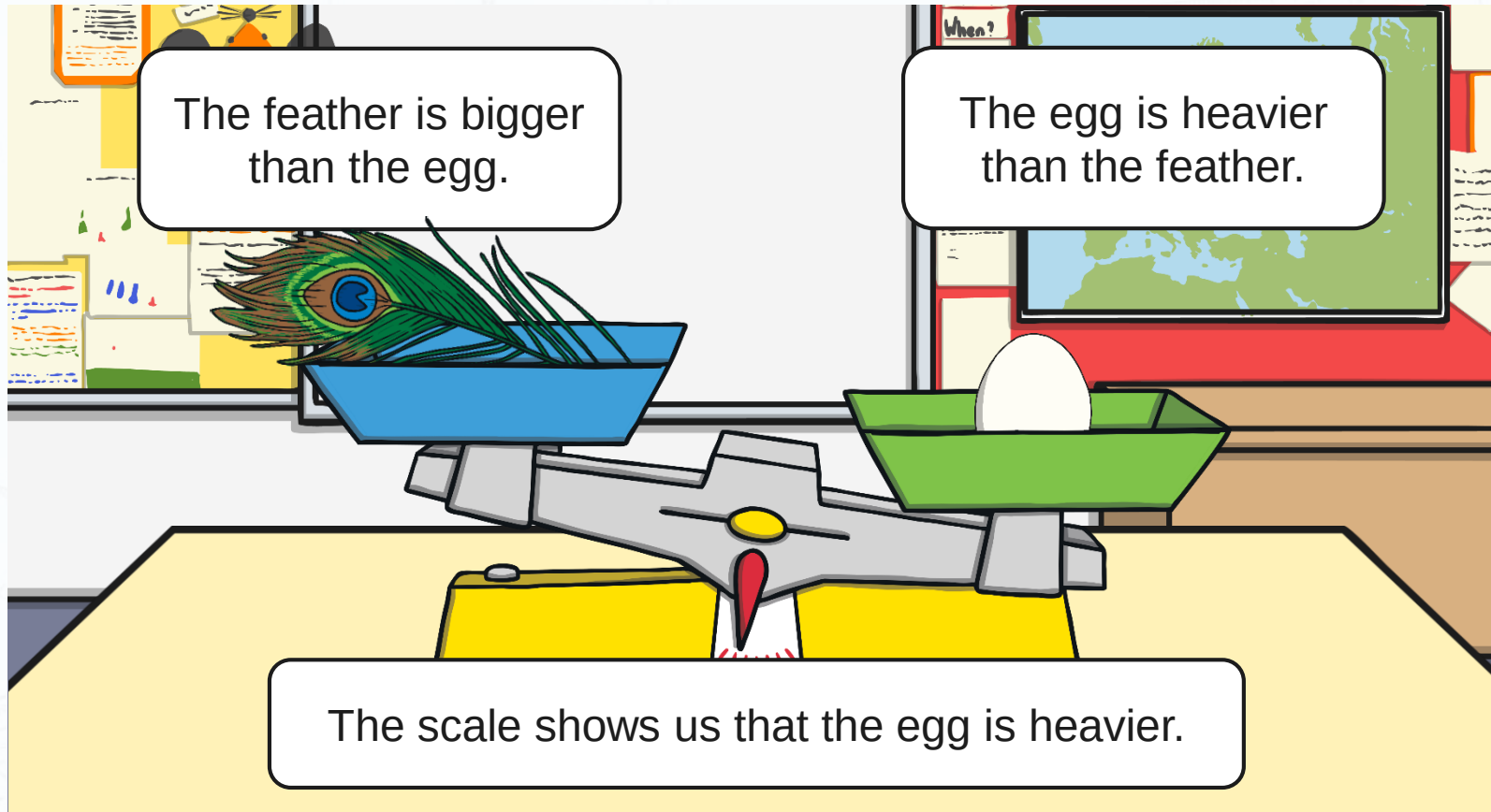
Weight and Size

Often, heavier things are bigger than lighter things.



Weight and Size

Sometimes, lighter things are bigger than heavier things.



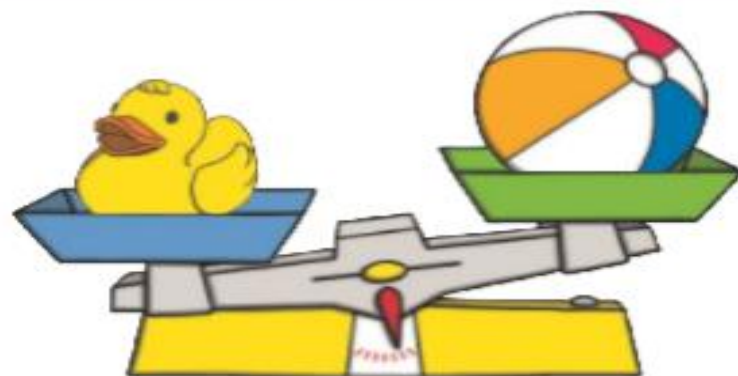
Weight and Mass

We can use different types of scales to measure mass.



Compare Mass

The duck is **heavier** than the ball.
The ball is **lighter** than the duck.



Measure Mass

The teddy **weighs** the same as 5 cubes.
They are **balanced**.



Now can you answer these questions about weight and mass?

Introduce weight and mass (2)



The _____ is heavier than the _____.

The _____ is lighter than the _____.



Can you describe the mass of these objects using these words?

lighter than

equal to

heavier than

Choose two objects and compare their mass.
Can you find two objects that have the same mass?
Are they the same size?

Now can you answer these questions about weight and mass?

Introduce weight and mass (2)



Which is heavier?



Which of these statements is correct?

The car will go down because it is heavier than the paper.

The car will go up. It is lighter because it is smaller than the paper.

The paper will go down. It is heavier because it is bigger than the car.

The balance scales won't move. They are the same colour so they have the same mass.

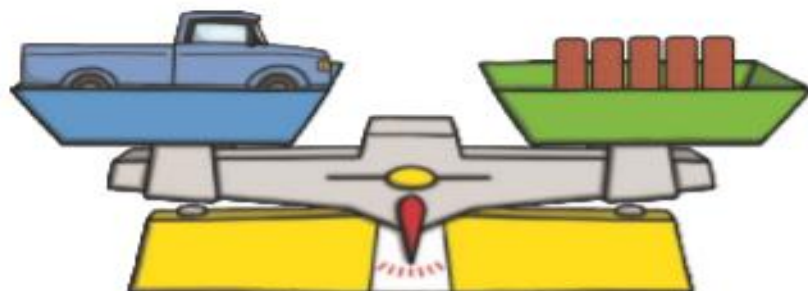
Choose 4 objects.

Can you sort them from the lightest to the heaviest?
How can you use the balance scales to check?

Compare Mass



The truck weighs ____ bricks.



The bus weighs ____ bricks.



The truck is _____ than the bus.



= 5 sticks



= 9 sticks



= 4 sticks

Order the cars from the lightest to the heaviest.

Find 4 objects.

Use cubes to measure their mass.



Order the objects from lightest to heaviest.

Compare Mass



The green plane is _____ than the red plane.



=



=



The red plane is _____ than the green plane.



Match each toy with a fact.

It weighs more than 5 sticks.

It weighs less than 5 sticks.

It is not the heaviest or the lightest.

5. Today there are more problems involving mass to solve.



Mass Challenge Cards



Mass Challenge Cards

1. Three different sized blocks of chocolate were weighed on the balance arms. The white chocolate weighed 5 marbles, the dark chocolate weighed 3 marbles and the milk chocolate weighed 7 marbles. Order the chocolates from lightest to heaviest.



Mass Challenge Cards

2. The shoe is heavier than the water bottle. The pencil case is lighter than the water bottle. The tablet is heavier than the shoe. Which item is the heaviest?



Mass Challenge Cards

3. Which toy car is the lightest?



Mass Challenge Cards

4. My pencil case balances with 6 marbles, my friend's pencil case balances with 2 fewer marbles. How many marbles does it take to balance my friend's pencil case?



Mass Challenge Cards

5. The stapler is lighter than the laptop, but heavier than the ruler. The pencil case is heavier than the stapler, but lighter than the laptop. Order these objects from heaviest to lightest.



Mass Challenge Cards

6. My lunch box balances with 12 marbles, my friend's lunch box balances with 17 marbles. How many more marbles does my friend's lunch box need to balance than my lunch box?



Mass Challenge Cards

7. Which words would you put between these two objects; is heavier than, is lighter than, is the same as?



*Well done on another excellent week of
learning in Maths, Year 1!*

*Maybe you could help your grown-ups to bake
a cake where you have to use scales to
weigh out the ingredients.*

*Don't forget to send photographs of
Your learning to your teachers.*

