Comparing mass

What does it mean if the buckets are level?

What does it mean if one bucket is lower than the other?

What do the symbols >, < and = mean?

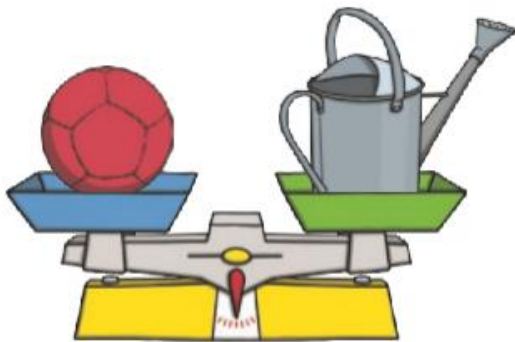Can you put the correct symbol in each box to describe what you can see happening on the scale?
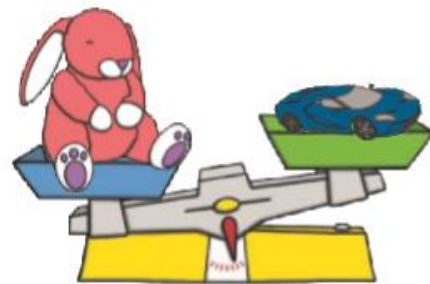
Can you work out which toy is lightest overall?

Fluency

Compare Mass

Add the correct symbol to compare the mass of the toys in the following statements.
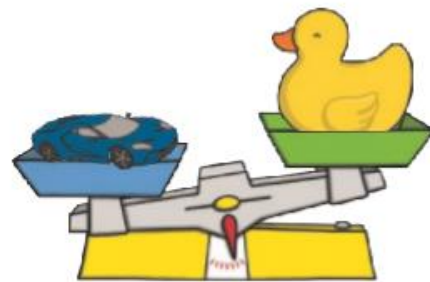
> < =

ball ☐ watering can

bunny ☐ car

rubber duck ☐ watering can

car ☐ rubber duck

Which is the lightest out of all the toys?

Adult Guidance with Question Prompts

What has the girl used in her balance scale to help measure the mass of the items in her lunchbox?

What is the mass of the sandwich?

Which item has a mass of 22 cubes?

Which is the heaviest? How do you know?

Can you order all the items starting with the heaviest?

What is the mass of the apple?

What is the mass of one biscuit?

How many biscuits would have the same mass as one apple?

Reasoning

Compare Mass

Katie measured the mass of all the items in her lunchbox using cubes. She recorded the results in a table.

Item	Mass in Cubes
sandwich	25
crisps	12
yoghurt	22
biscuit	10
apple	30

Order the items from heaviest to lightest.

Which item is the second heaviest?

How many biscuits have the same mass as one apple?

Think of a question to ask a friend about this information.

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Adult Guidance with Question Prompts

Children reason about the masses of the objects in the picture. They use known number facts to recognise that there are double the number of pencils than books, and use this fact to solve a problem.

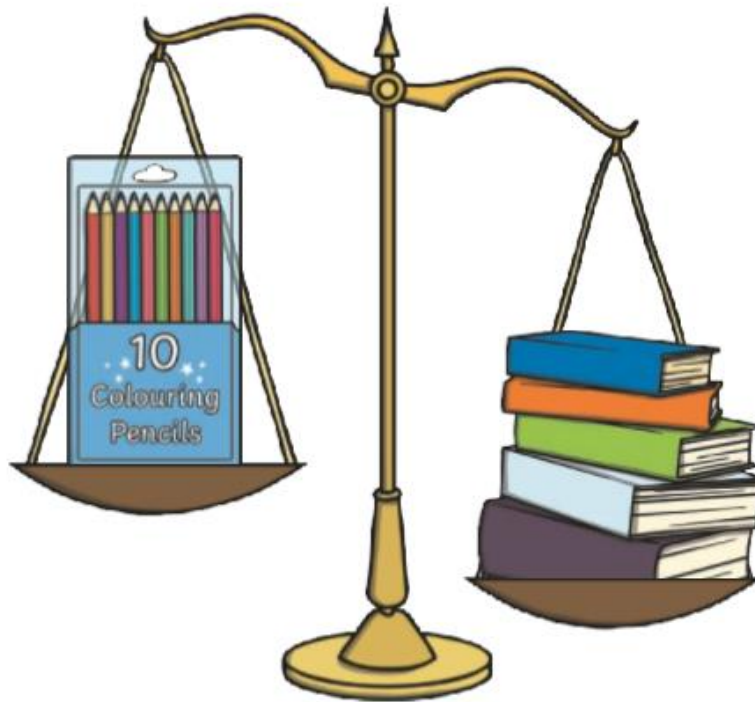Can you explain what you know about the masses of the objects?

Do you think the statements are true or false? Can you explain why?

If five books have a greater mass than ten pencils, can one book have the same mass as one pencil? Why not?

Mastery

Compare Mass

True or false?

5 books have a greater mass than 10 pencils.

1 book has the same mass as 1 pencil.

20 pencils have a smaller mass than 10 books.

5 pencils have the same mass as 5 books.

Can you write a sentence to describe the mass of the objects using the words 'greater' or 'smaller'?