## To be able to measure mass

Success criteria:
$\checkmark$ I can use non-standard units, such as buttons and wooden blocks, to measure the mass of an object.
$\checkmark$ I can explain my reasoning when using non-standard units, such as buttons and wooden blocks, to measure the mass of an object.
$\checkmark$ I can say when a scale is balanced.

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Starter:
Which is the odd one out?


How do you know?

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## Starter:

Which is the odd one out?


The silver toy is the odd one out as it weighs the same as four cubes. The apple, pear and baseball are each equal in weight to three cubes.

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Talking Time:
Look at the picture, complete the sentence below.


The toy is equal in weight to _ block.
You can copy the picture into your book and then write the sentence.

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Talking Time:
Look at the picture, complete the sentence below.

The toy is equal in weight to 1 block.

## To be able to measure mass

Talking Time:
Look at the picture, complete the sentence below.

The toy is equal in weight to _ blocks.

## To be able to measure mass

Talking Time:
Look at the picture, complete the sentence below.

The toy is equal in weight to 3 blocks.

## To be able to measure mass

Talking Time:
Look at the picture, complete the sentence below.

The ball is equal in weight to _ blocks.

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Talking Time:
Look at the picture, complete the sentence below.


The ball is equal in weight to $\underline{2}$ blocks.

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Talking Time:
Look at the picture, complete the sentence below.


The apple is equal in weight to _ cubes.

## To be able to measure mass

Talking Time:
Look at the picture, complete the sentence below.

The apple is equal in weight to 4 cubes.

## To be able to measure mass

Talking Time:
Look at the picture, complete the sentence below.


The pear is equal in weight to _ cubes.

## To be able to measure mass

Talking Time:
Look at the picture, complete the sentence below.


The pear is equal in weight to 3 cubes.

## To be able to measure mass

## Activity 1:

Use pennies to measure the mass of various small things from around your house and use the sentence stem below to write what you found out into your books.

Have you found it difficult to balance certain items with an exact number of pennies? Why might that be?

The is equal in weight to pennies.

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Activity 3:
Would it be better to use wooden blocks or multilink cubes to measure the mass of:
a) a pencil?
b) a ruler?
c) a basketball?
d) a tennis ball?
e) a dictionary?
f) a glue stick?

Write your answers in your book or explain your answers to your grown up.

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Talking Time:
One wooden block weighs the same as four multilink cubes.

Jamal says, "The pear and the apple have the same mass." Yasmin says, "The apple weighs more than the pear."

Who do you agree with?


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Talking Time:
One wooden block weighs the same as four multilink cubes.

Jamal says, "The pear and the apple have the same mass." Yasmin says, "The apple weighs more than the pear."

I agree with Jamal.
If both scales are balanced and one block weighs the same as four cubes, then both pieces of fruit would balance with either four cubes or one block in the opposite pan.

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Activity 4:
One wooden block weighs the same as three multilink cubes.

James says, "The toy weighs more than the ball."
Ruth says, "The toy and the ball have the same mass."

Who do you agree with?

Why?

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Activity 4:
One wooden block weighs the same as three multilink cubes.

James says, "The toy weighs more than the ball." Ruth says, "The toy and the ball have the same mass."

I agree with Ruth.
If one block is worth three cubes, then two blocks will weigh the same as six cubes. So, if the toy weighs two blocks, it would also weigh the same as six multilink cubes, which is the same as the ball.


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Talking Time:
How many cubes does the apple weigh?

Explain your answer.


The apple is equal in weight to _ cubes.
Have you noticed there is a cube with the apple?

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The apple is equal in weight to $\underline{3}$ cubes.

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Talking Time:
How many cubes does the ball weigh?

The ball is equal in weight to _ cubes.

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The ball is equal in weight to 4 cubes.

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## Activity 5:

How many cubes does the toy weigh?

The toy is equal in weight to cubes.


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## Activity 5:

How many cubes does the toy weigh?

The toy is equal in weight to 5 cubes.


## Challenge time!



How many cubes does the teddy bear weigh?
Explain how you know.


Teddy says,


Who do you agree with?
Explain why

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No, I do not agree. Two blocks are heavier than an apple, because the blocks' pan is lower than the apple's pan, meaning two wooden blocks are heavier than an apple!

