# Maths

## Measurement



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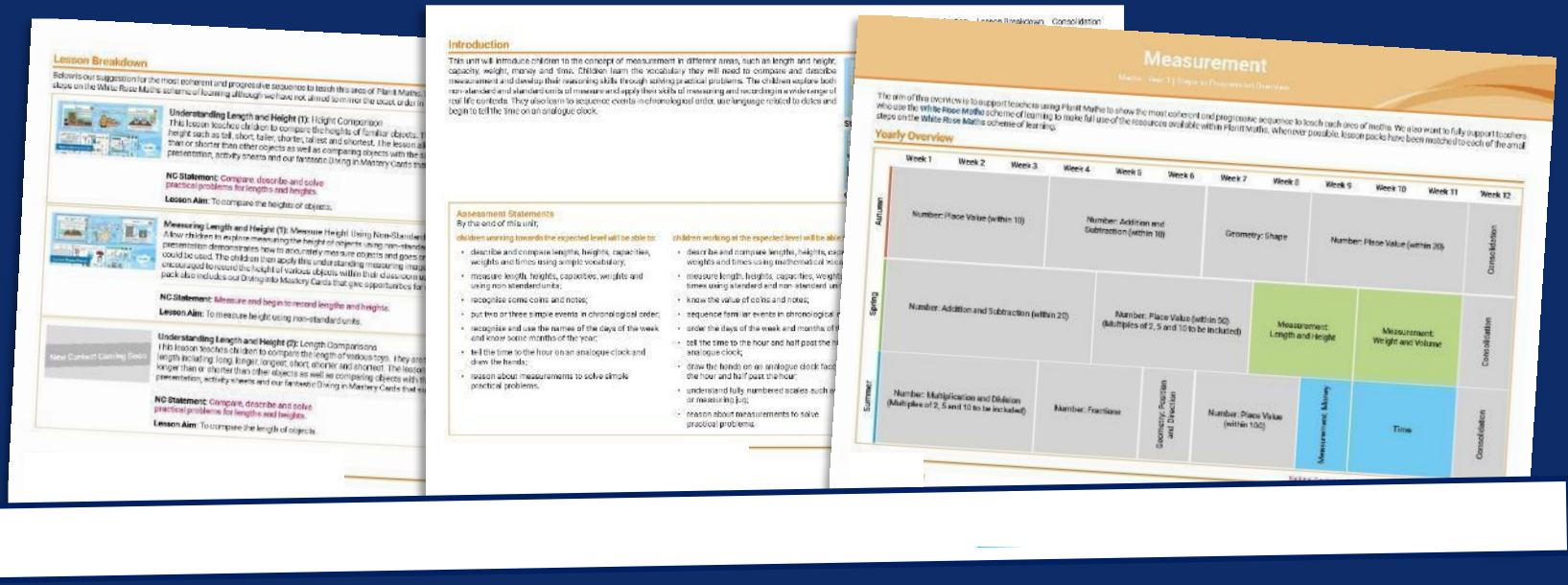
# Need a coherently planned sequence of lessons to complement this resource?

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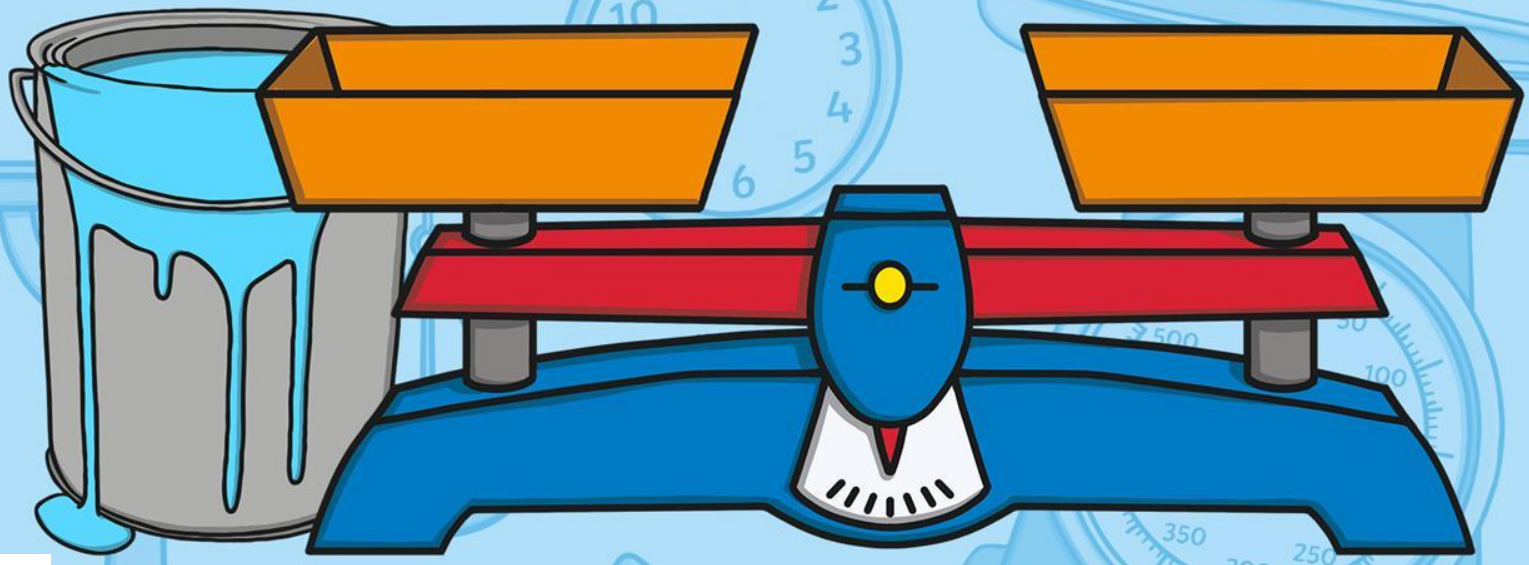
# Mass Problem Solving



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# Aim

- To solve mass problems.

# Success Criteria

- I can solve problems by measuring mass.
- I can solve problems by comparing mass.
- I can use accurate vocabulary to explain my reasoning.

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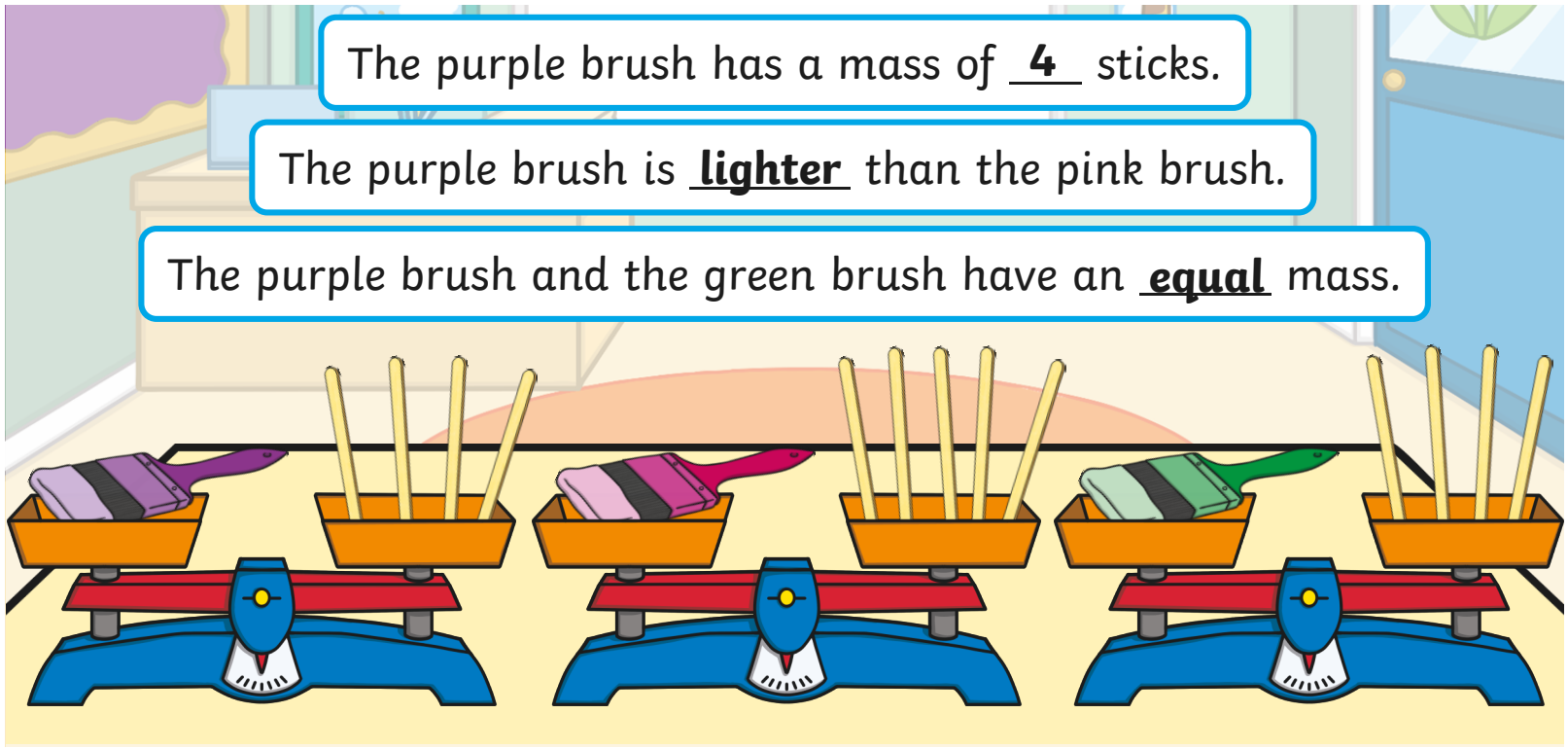
# Remember It

What do you know about the mass of the purple paintbrush? What is its mass? Can you compare it to the mass of the other paintbrushes?

The purple brush has a mass of **4** sticks.

The purple brush is **lighter** than the pink brush.

The purple brush and the green brush have an **equal** mass.



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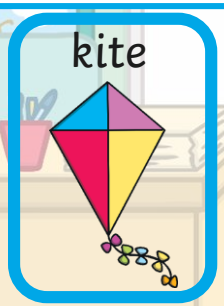
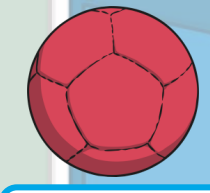
# Remember It

Can you find this toy?

It's lighter than the skipping rope but heavier than the yo-yo.






lightest → heaviest

Pick a toy.
Tell your talk partner clues about its mass.
Can they work out which toy it is?

**Useful Words**

mass heavier lighter heaviest lightest

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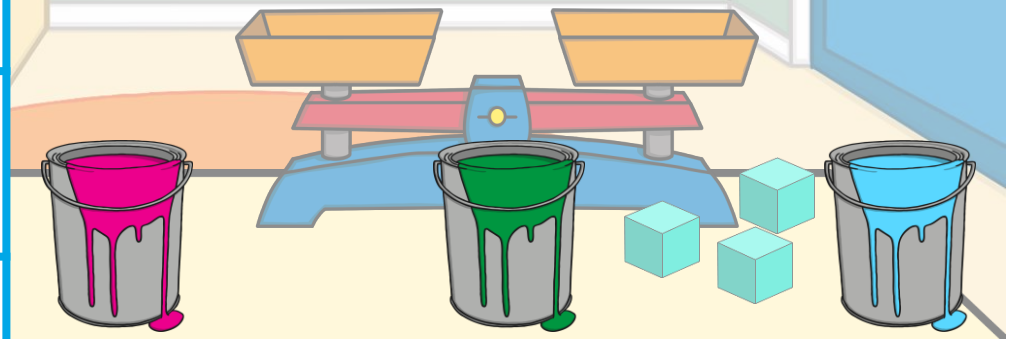
# Paint Problem

Whole Class

Oh no! I spilt paint on a number. How can I work out what it is?

| Paint Pot | Number of Cubes |
|---|---|
| blue | 6 |
| pink | 4 |
| green | |

It has to be **5** because 5 cubes is **heavier** than 4 cubes and **lighter** than 6 cubes.



lightest → heaviest

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# Mass Mix Up

Whole Class

We measured the mass of these objects with counters.
Then we ordered them from the heaviest to the lightest.

| Object | | | | | |
|---|---|---|---|---|---|
| **Number of counters** | 7 | 3 | 6 | 4 | 9 |

heaviest → lightest

It goes here because **6** counters is **lighter** than 7 counters and **heavier** than 4 counters.

What is mi… …o you know?

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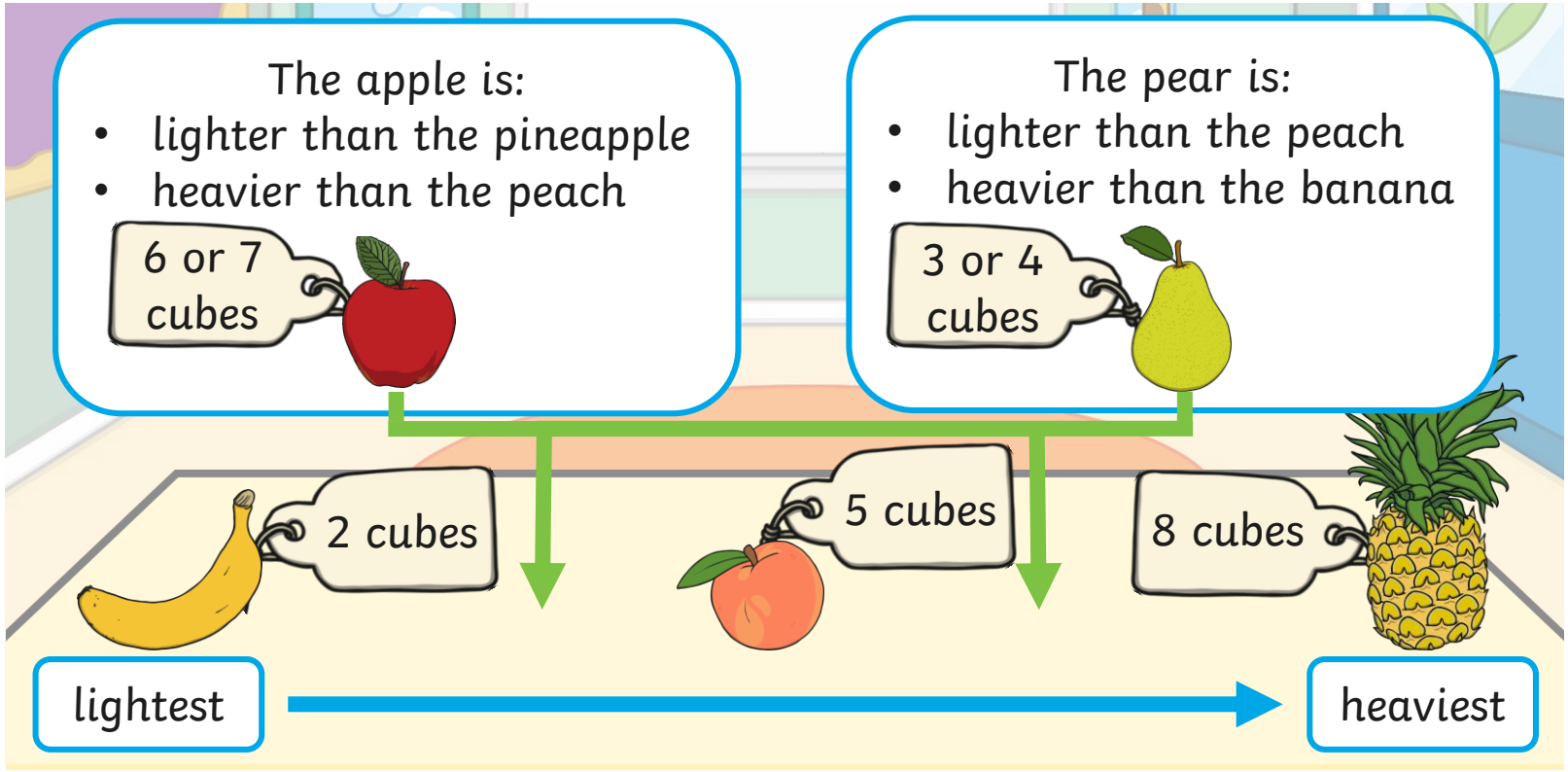
# Solve the Clues

Whole Class

I have measured the mass of different fruits using cubes.

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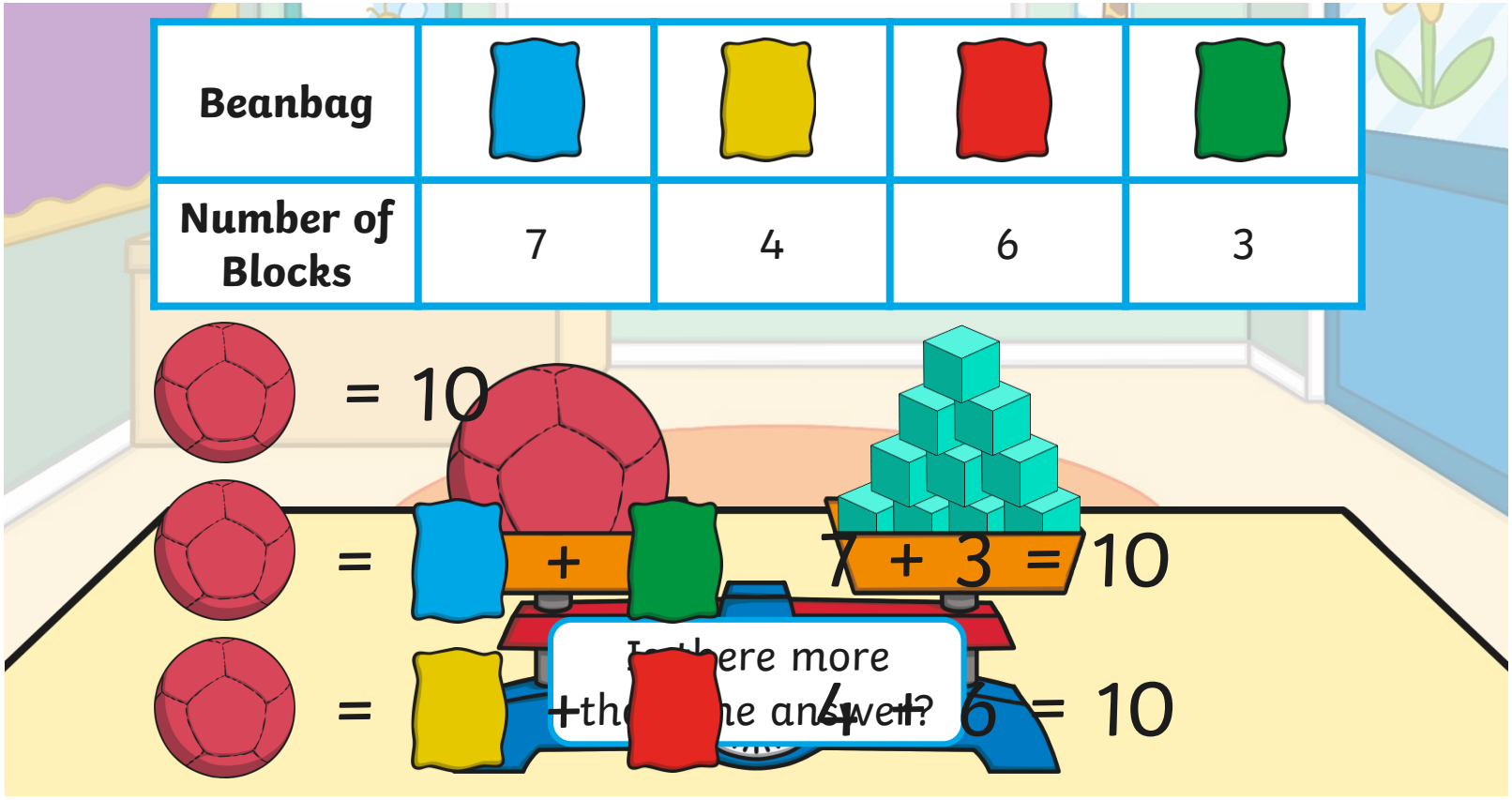
# Match the Mass

Whole Class

Which 2 beanbags together have the same mass as the ball?

| Beanbag |  |  |  |  |
|---|---|---|---|---|
| Number of Blocks | 7 | 4 | 6 | 3 |

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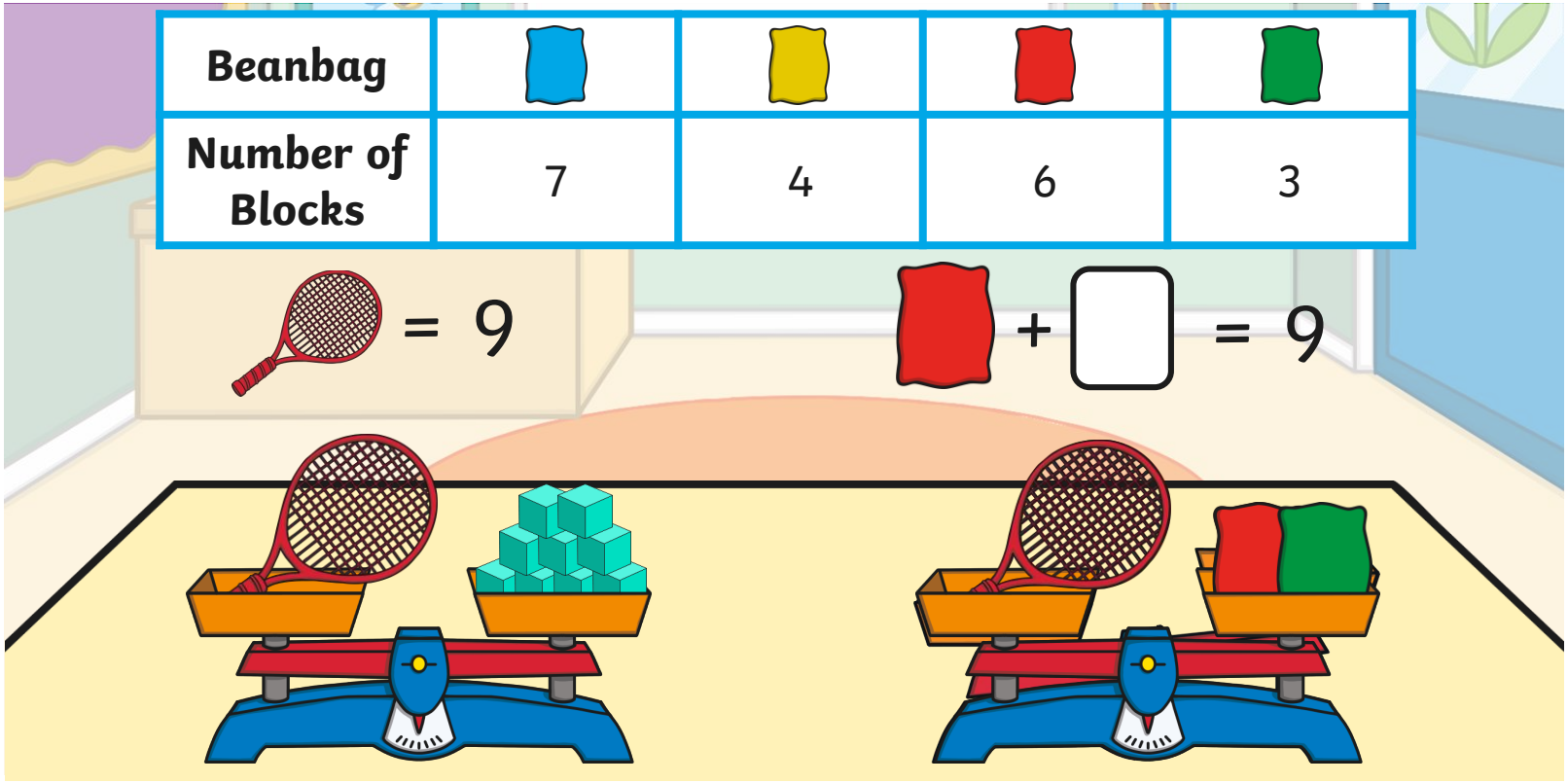
# Make a Mass

Whole Class

Which beanbag could I put with the red one to make the same mass as the bat?

| Beanbag | | | | |
|---|---|---|---|---|
| Number of Blocks | 7 | 4 | 6 | 3 |

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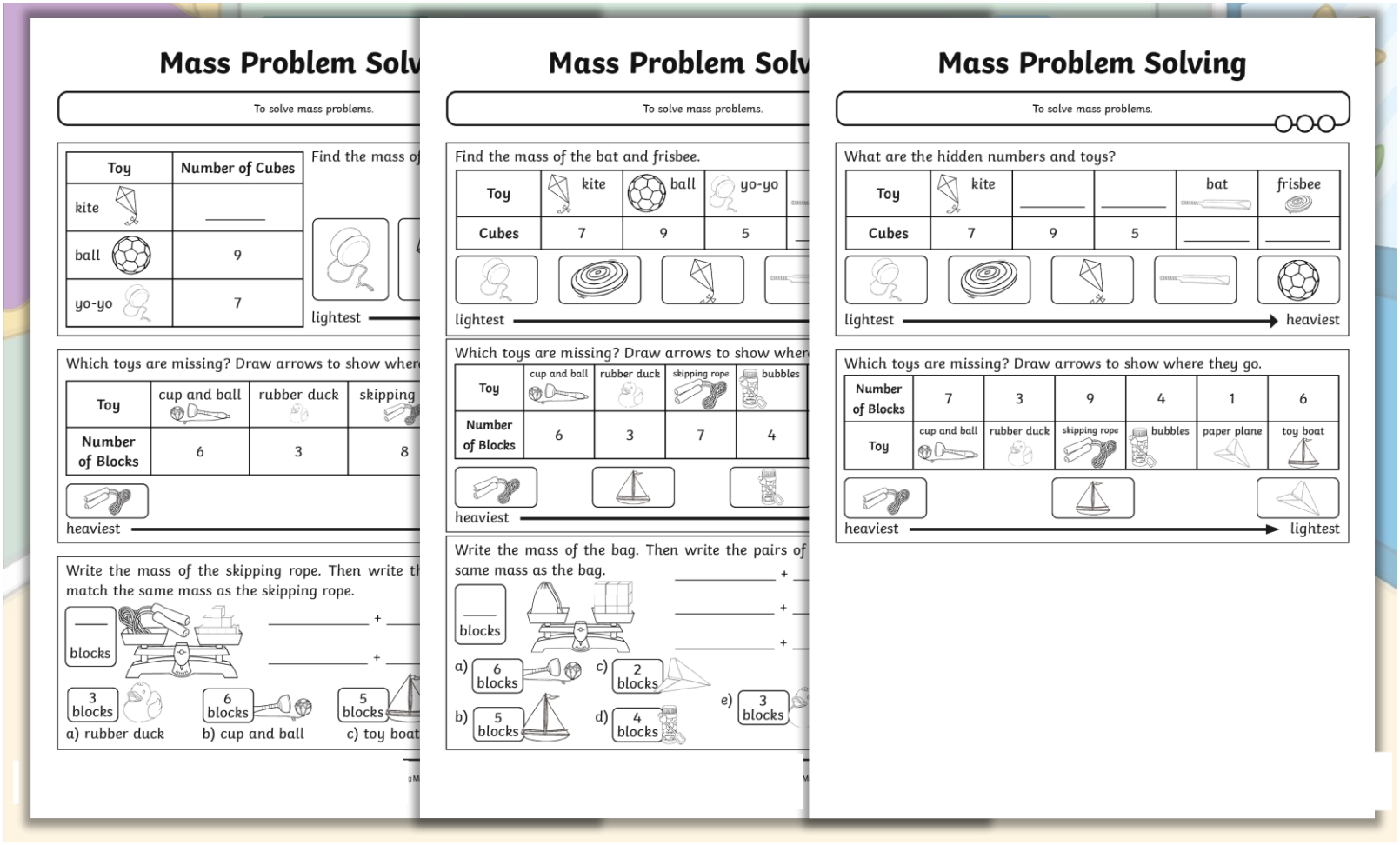
# Comparing Mass Activities



## Mass Problem Solv

To solve mass problems.

| Toy | Number of Cubes |
|---|---|
| kite | _____ |
| ball | 9 |
| yo-yo | 7 |

Find the mass of

lightest

Which toys are missing? Draw arrows to show where

| Toy | cup and ball | rubber duck | skipping |
|---|---|---|---|
| Number of Blocks | 6 | 3 | 8 |

heaviest

Write the mass of the skipping rope. Then write th
match the same mass as the skipping rope.

_____ blocks

_____ + _____

_____ + _____

3 blocks a) rubber duck

6 blocks b) cup and ball

5 blocks c) toy boat

## Mass Problem Solv

To solve mass problems.

Find the mass of the bat and frisbee.

| Toy | kite | ball | yo-yo | |
|---|---|---|---|---|
| Cubes | 7 | 9 | 5 | |

lightest

Which toys are missing? Draw arrows to show where

| Toy | cup and ball | rubber duck | skipping rope | bubbles |
|---|---|---|---|---|
| Number of Blocks | 6 | 3 | 7 | 4 |

heaviest

Write the mass of the bag. Then write the pairs of
same mass as the bag.

_____ blocks

_____ + _____

_____ + _____

_____ + _____

a) 6 blocks

b) 5 blocks

c) 2 blocks

d) 4 blocks

e) 3 blocks

## Mass Problem Solving

To solve mass problems.

What are the hidden numbers and toys?

| Toy | kite | _____ | _____ | bat | frisbee |
|---|---|---|---|---|---|
| Cubes | 7 | 9 | 5 | _____ | _____ |

lightest → heaviest

Which toys are missing? Draw arrows to show where they go.

| Number of Blocks | 7 | 3 | 9 | 4 | 1 | 6 |
|---|---|---|---|---|---|---|
| Toy | cup and ball | rubber duck | skipping rope | bubbles | paper plane | toy boat |

heaviest → lightest

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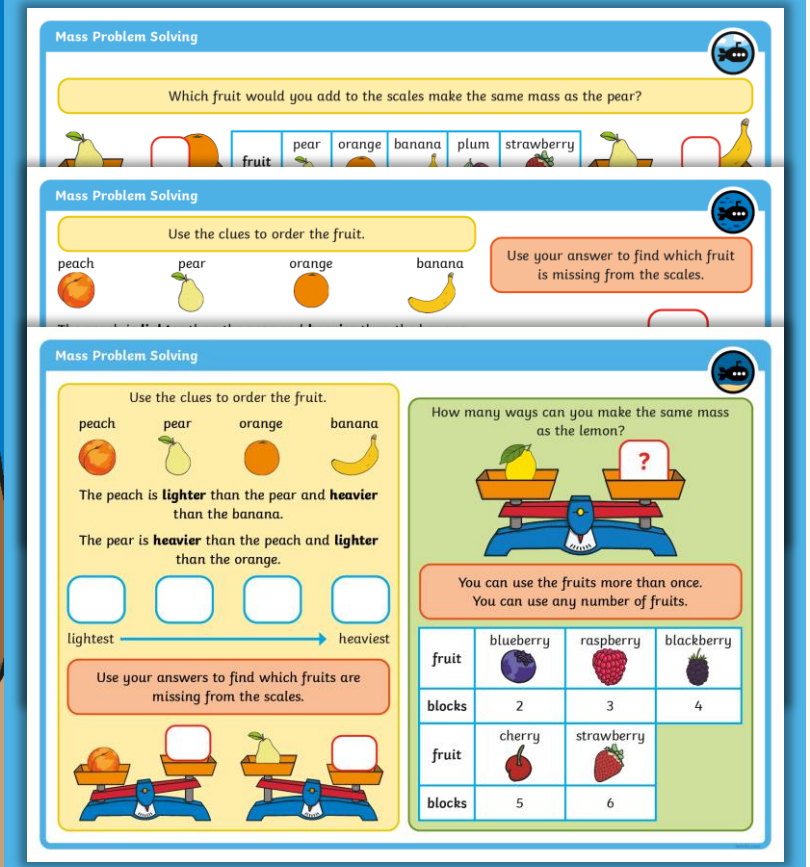
# Diving into Mastery

## Dive in by completing your own activity!

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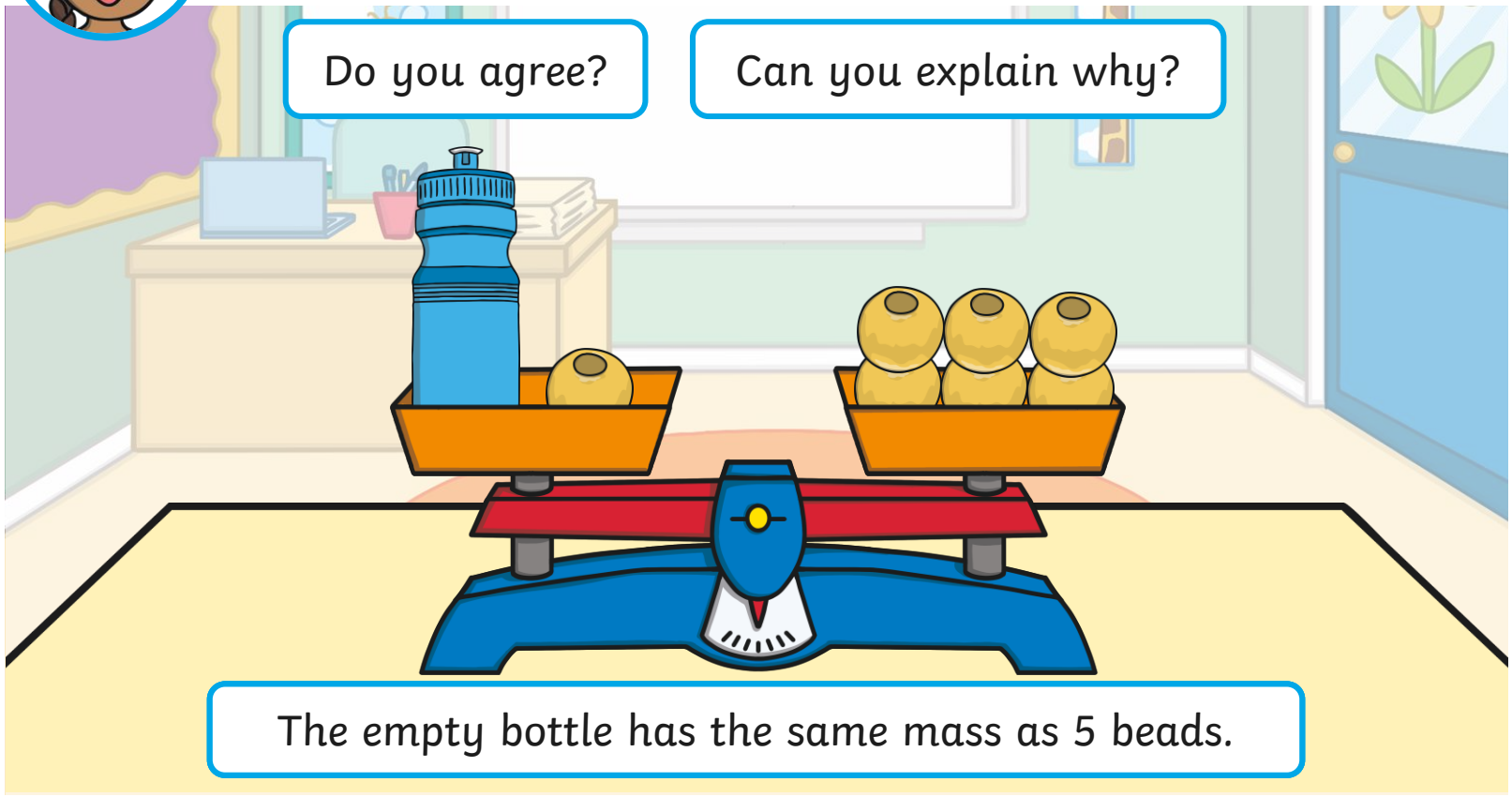
# Check It

Whole Class

The empty bottle has the same mass as 6 beads.

Do you agree?

Can you explain why?



The empty bottle has the same mass as 5 beads.

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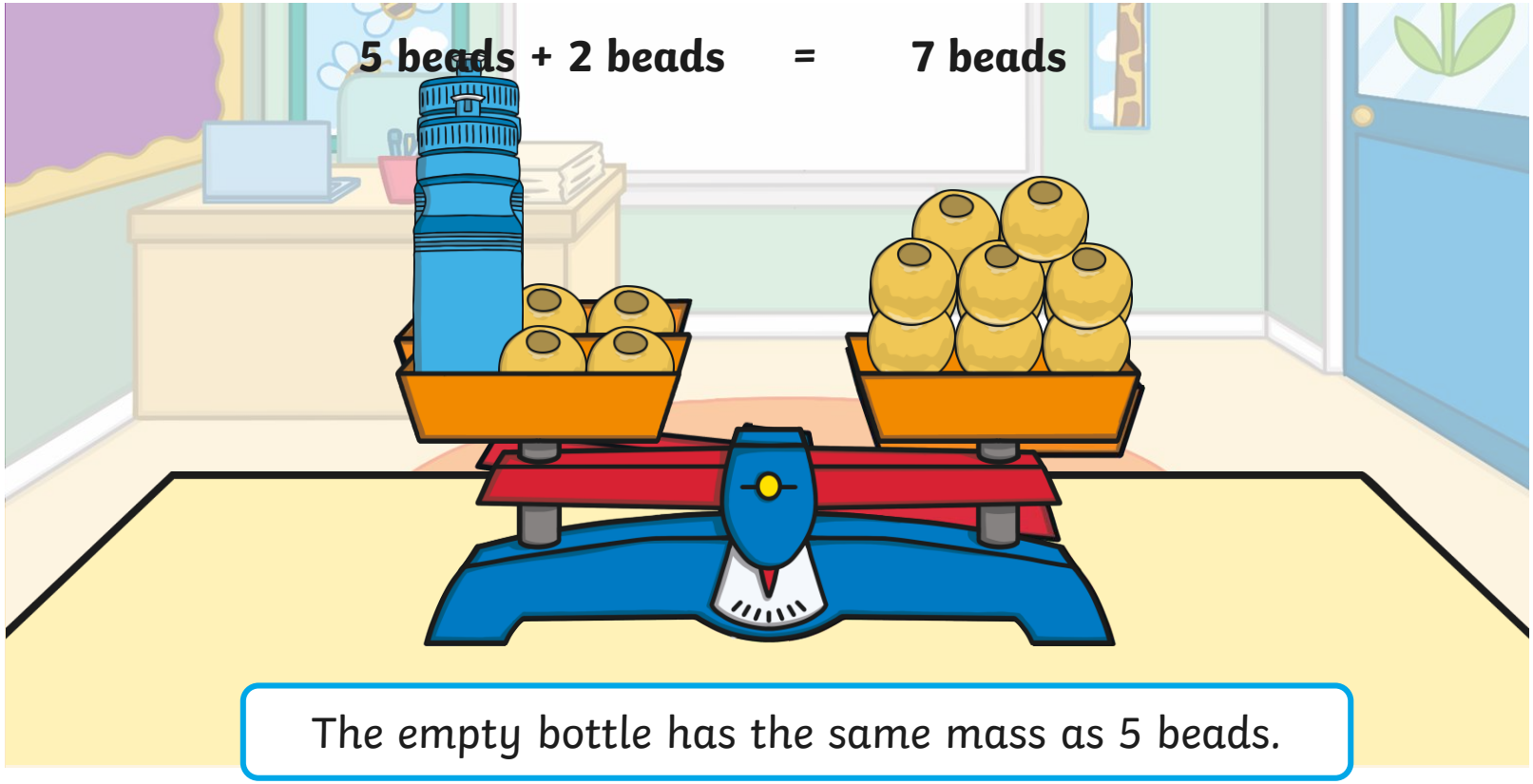
# Check It

Whole Class

We can remove 1 bead from the right side to balance the scale.

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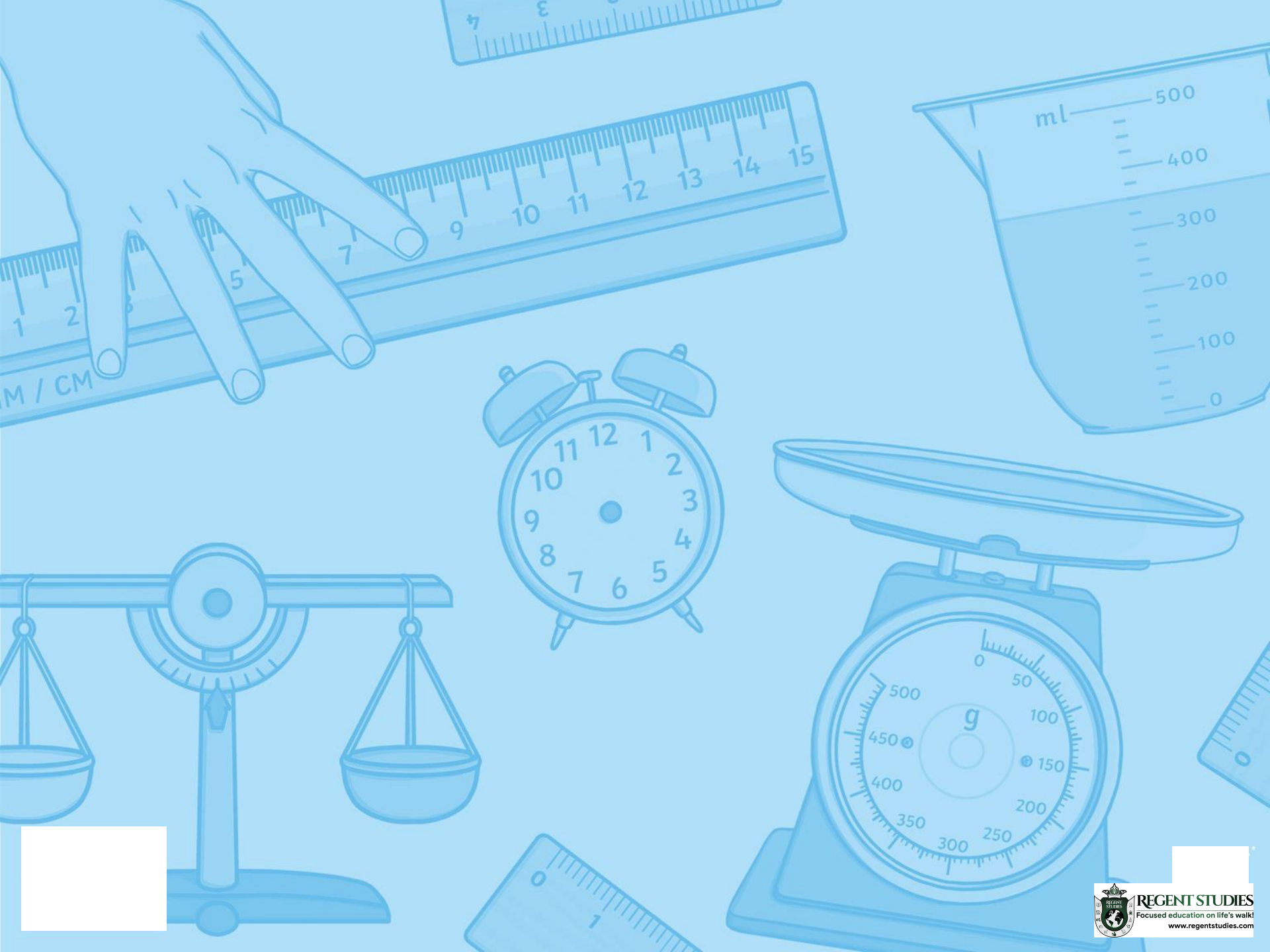
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