## Reasoning and Problem Solving Step 1: Introduce Weight and Mass

## National Curriculum Objectives:

Mathematics Year 1: (1M1) Compare, describe and solve practical problems for: mass/weight [for example, heavy/light, heavier than, lighter than] Mathematics Year 1: (1M2) Measure and begin to record: mass/weight

## Differentiation:

Questions 1, 4 and 7 (Reasoning)
Developing Explain if a statement is correct. Using seesaw scales and language of heavier and lighter.
Expected Explain if a statement is correct. Using a balance scale and language of heavier, lighter and equal.
Greater Depth Explain is a statement is correct. Using a balance scale where the weight of two objects must be used to determine the weight of another object. Using language of heavier, lighter and equal.

Questions 2, 5 and 8 (Problem Solving)
Developing Predict how the scales will look when weighing given objects. Using seesaw scales and language of heavier and lighter.
Expected Predict how the scales will look when weighing given objects. Using a balance scale and language of heavier, lighter and equal.
Greater Depth Predict how the scales will look when weighing given objects. Using a balance scale where the weight of two objects must be used to determine the weight of another object. Using language of heavier, lighter and equal.

Questions 3, 6 and 9 (Problem Solving)
Developing Identify the missing object. Using seesaw scales and language of heavier and lighter.
Expected Identify the missing object. Using a balance scale and language of heavier, lighter and equal.
Greater Depth Identify the missing object. Using a balance scale where the weight of two objects must be used to determine the weight of another object. Using language of heavier, lighter and equal.

## More Year 1 Weight and Volume resources.

Did you like this resource? Don't forget to review it on our website.


Is she correct？Explain your answer．

2a．A button and a bag are placed on the scales．

A．
B．
Would the balance scales look like A or B？

3a．These objects have been ordered from lightest to heaviest．

A．

B．

C．

Which object is missing from the scale？
3b．These objects have been ordered from lightest to heaviest．

A．

B．

C．

Which object is missing from the scale？

## Introduce Weight and Mass

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4a. Zoya thinks the pencil is heavier than the doll.


Is she correct? Explain your answer.

5a. Two identical apples were put on either side of a scale.

A.

Would the balance scales look like A or B?

6a. These objects have been ordered from lightest to heaviest.

A.

B.

C.

Which object is missing from the scale?


4b. Imran thinks the caterpillar is lighter than the worm.


Is he correct? Explain your answer.

5b. A pumpkin was put on one side of a scale and a lemon was put on the other.

A.

B.

Would the balance scales look like A or B?级
6b. These objects have been ordered from lightest to heaviest.

A.

B.

C.

Which object is missing from the scale?


## Introduce Weight and Mass



Is he correct? Explain your answer.

7b. David thinks that 2 books would be an equal weight to 2 pencils.


Is he correct? Explain your answer.

8a. There is 1 brick on each side of a scale. Another brick is added to one side.

A.

Would the balance scales look like A or B?

9a. These objects have been ordered from heaviest to lightest.

A.

B.

C.

Which object(s) could be missing from the scale?


8 b . There are 2 conkers on each side of a scale. One conker is removed.


Would the balance scales look like A or B?


9 b . These minibeasts have been ordered from lightest to heaviest.

A.
B.
C.

Which minibeast(s) could be missing from the scale?


Reasoning and Problem Solving Introduce Weight and Mass

## Reasoning and Problem Solving

 Introduce Weight and Mass
## Developing

1b. Orla is correct because the cup is heavier than the fork.
2b. B
3b. C

## Expected

4b. Imran is incorrect because the worm and the caterpillar are an equal weight.
5b. B
6b. A

## Greater Depth

7b. David is incorrect because 1 book is heavier than 2 pencils, so 2 books will also be heavier.
8b. B
9b. A

