<u>Reasoning and Problem Solving</u> <u>Step 1: Introduce Weight and Mass</u>

National Curriculum Objectives:

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

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 <u>Year 1 Weight and Volume</u> resources.

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Reasoning and Problem Solving – Introduce Weight and Mass – Teaching Information

Introduce Weight and Mass	Introduce Weight and Mass
1a. Amy thinks the ladybird is heavier than the flower.	1b. Orla thinks the fork is lighter than the cup.
Is she correct? Explain your answer.	Is she correct? Explain your answer.
R	R R
2a. A button and a bag are placed on the scales.	2b. A ball and a book are placed on the scales.
A. B.	A. B.
Would the balance scales look like A or B?	Would the balance scales look like A or B?
PS PS	PS PS
3a. These objects have been ordered from lightest to heaviest.	3b. These objects have been ordered from lightest to heaviest.
A. B. C.	A. B. C.
Which object is missing from the scale?	Which object is missing from the scale?
PS PS	PS

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Reasoning and Problem Solving – Introduce Weight and Mass – Year 1 Developing



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Reasoning and Problem Solving – Introduce Weight and Mass – Year 1 Expected



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Reasoning and Problem Solving – Introduce Weight and Mass – Year 1 Greater Depth

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<u>Reasoning and Problem Solving</u> <u>Introduce Weight and Mass</u>

Developing

1a. Amy is incorrect because the ladybird is lighter than the flower.

2a. A

3a. 🗛

Expected

4a. Zoya is incorrect because the doll is the heavier than the pencil.

5a. 🗛

6a. <mark>C</mark>

Greater Depth

7a. Ash is correct because 2 yo-yos and 1 ball are an equal weight, adding another ball would make them heavier.

8a. <mark>B</mark>

9a. <mark>C</mark>

<u>Reasoning and Problem Solving</u> <u>Introduce Weight and Mass</u>

Developing

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

3b. <mark>C</mark>

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. <mark>B</mark>

9b. A



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Reasoning and Problem Solving – Introduce Weight and Mass ANSWERS