



DEEPENING UNDERSTANDING ANSWER SHEET

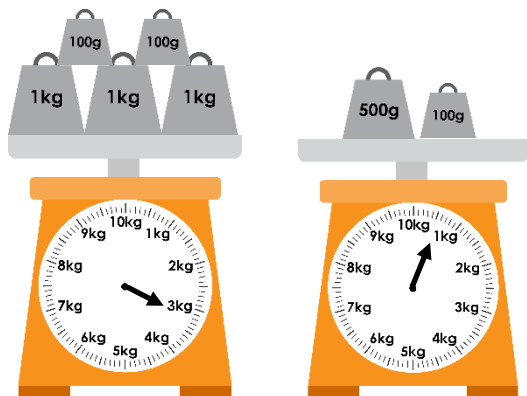
YEAR 3 PIM – MEASURE MASS (2)

Fluency 1

The mass of the bananas is 1 kg and 600 g.

The mass of the pumpkin is 3 kg and 400 g.

Fluency 2



Together, the weights weigh 3 kg and 800 g.

Fluency 3

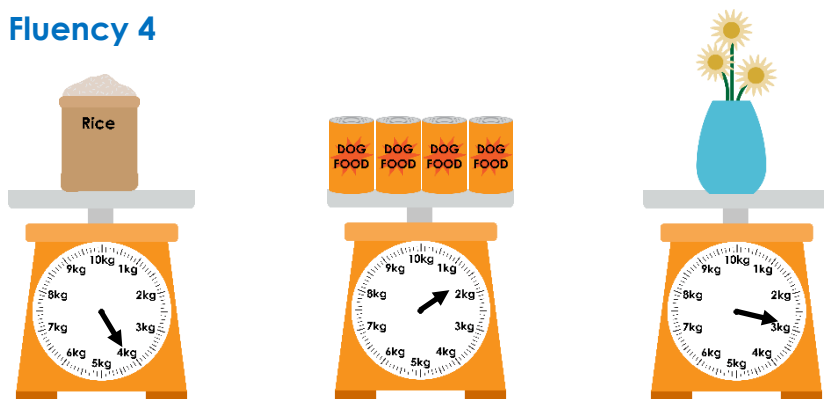
The mass of the cake is 3 kg and 500 g.

The mass of the trainers is 1 kg and 200 g.

The mass of the potatoes is 5 kg and 500 g.



Fluency 4



Reasoning 1

Modelled DAB Reasoning Responses

D – There is a mistake.

A – The left side should not be lower than the right.

B – The scales should be balanced because $1\text{kg} = 1,000\text{g}$ and $500 + 500 = 1\text{kg}$ so both sides equal 1kg and 100g .

Reasoning 2

Modelled DAB Reasoning Response

D – True

A – Adding 1kg and 50g to the left will tip the scale.

B – 1kg and 50g is heavier than 1kg so it will be heavier and the left side will go down.

Reasoning 3

The grapes weigh 1kg and 500g because $2\text{kg} - \text{the } 500\text{g weight} = 1\text{kg}$ and 500g . The bananas must weigh 1kg because if the grapes and the bananas weigh 2kg and 500g , the difference between the grapes (1kg and 500g) and the total mass is 1kg .

Download our 'DAB' posters to support reasoning in your classroom:

<https://www.deepeningunderstanding.co.uk/product/dab-reasoning-posters/>



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Problem Solving 1

$$1\text{ kg} + 1\text{ kg} + 500\text{g}$$

$$1\text{ kg} + 1000\text{g} + 500\text{g}$$

$$1\text{ kg} + 1\text{ kg} + 200\text{g} + 200\text{g} + 100\text{g}$$

$$1\text{ kg} + 1000\text{g} + 200\text{g} + 200\text{g} + 100\text{g}$$

$$1000\text{g} + 1000\text{g} + 200\text{g} + 200\text{g} + 100\text{g}$$

Problem Solving 2

$$700\text{g} + 700\text{g} + 600\text{g}$$

$$800\text{g} + 800\text{g} + 400\text{g}$$

$$800\text{g} + 700\text{g} + 500\text{g}$$

$$800\text{g} + 600\text{g} + 600\text{g}$$

$$100\text{g} + 100\text{g} + 100\text{g}$$

$$100\text{g} + 100\text{g} + 200\text{g}$$

$$100\text{g} + 200\text{g} + 200\text{g}$$

$$200\text{g} + 200\text{g} + 200\text{g}$$

$$200\text{g} + 300\text{g} + 300\text{g}$$

$$300\text{g} + 300\text{g} + 300\text{g}$$

$$300\text{g} + 300\text{g} + 400\text{g}$$

$$300\text{g} + 400\text{g} + 400\text{g}$$

$$400\text{g} + 400\text{g} + 400\text{g}$$

$$400\text{g} + 400\text{g} + 500\text{g}$$

$$400\text{g} + 500\text{g} + 500\text{g}$$

