## National Curriculum Objectives:

Mathematics Year 3: (3M2b) Measure mass (kg/g)

## Differentiation:

## Questions 1, 4 and 7 (Problem Solving)

Developing When given information about the weight of an object, determine the weight of another. Increments of 1,2,5 or 10 used. All increments labelled.
Expected When given information about the weight of an object, determine the weight of another. Increments of 4, 8,50 or 100 used. Every other increment labelled.
Greater Depth When given information about the weight of an object, determine the weight of another. Increments of $4,8,50$ or 100 used, but most increments are not labelled on the scales.

Questions 2, 5 and 8 (Problem Solving)
Developing Identify missing quantities of ingredients needed when measuring mass. Increments of 1,2,5 or 10 used. All increments labelled.
Expected Identify missing quantities of ingredients needed when measuring mass. Increments of 4, 8,50 or 100 used. Every other increment labelled.
Greater Depth Identify missing quantities of ingredients needed when measuring mass. Increments of 4, 8,50 or 100 used, but most increments are not labelled on the scales.

Questions 3, 6 and 9 (Reasoning)
Developing Decide whether a statement about weighing scales is correct and explain why. Increments of 1,2,5 or 10 used. All increments labelled.
Expected Decide whether a statement is correct or incorrect and explain why when measuring mass. Increments of 4, 8,50 or 100 used. Every other increment labelled. Greater Depth Decide whether a statement is correct or incorrect and explain why when measuring mass. Increments of 4, 8,50 or 100 used, but most increments are not labelled on the scales.

## More Year 3 Mass and Capacity resources.

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

1a．If two cupcakes weigh the same as one apple，draw an arrow on the scale to show the weight of the apple．


2a．Matt is making a pie．He needs 30 g of butter and 150 g of chicken．


How much more of each ingredient does he need？

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3a．Hafsa is weighing different items．She says the pear is heavier because the arrow on the scale is further around．


Is she correct？Explain how you know．向

1b．If two bananas weigh the same as one pear，draw an arrow on the scale to show the weight of the pear．


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2b．Tegan is making a salad．She needs $\mathbf{2 0 g}$ of lettuce and 70 g of cucumber．


How much more of each ingredient does she need？
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3a．Gabriel is weighing different items．He says the pumpkin is lighter because the arrow on the scale is closer to zero．


Is he correct？Explain how you know．合

4a. If two strawberries weigh the same as one plum, draw an arrow on the scale to show the weight of the plum.


5a. Reema is making a bread. She needs 650 g of flour and 10 g of salt.


How much more of each ingredient does she need?

6a. Steph is weighing different items. She says the potatoes are heavier because the arrow on the scale is further away from zero.


Is she correct? Explain how you know.

4b. If two raspberries weigh the same as one chilli, draw an arrow on the scale to show the weight of the chilli.

5b. Jackson is making biscuits. He needs 60 g of sugar and 200 g of butter.


How much more of each ingredient does he need?

6b. Sean is weighing different items. He says the melon is lighter because the arrow on the scale is closer to zero.


Is he correct? Explain how you know.

7a. If two lemons weigh the same as one orange, draw an arrow on the scale to show the weight of the orange.


8a. Ruth is making a sauce. She needs 280 g of tomatoes and 60 g of peppers.


How much more of each ingredient does she need?

9a. Alice is weighing different items. She says the pears are heavier because the arrow on the scale is further away from zero.


Is she correct? Explain how you know.

7b. If two cupcakes weigh the same as one tomato, draw an arrow on the scale to show the weight of the tomato.


8b. Keenan is making a dessert. He needs 60 g of sugar and 120 g of custard.


How much more of each ingredient does he need?

9b. Josh is weighing different items. He says the bananas are lighter because the arrow on the scale is closer to zero.


Is he correct? Explain how you know.

## Reasoning and Problem Solving

 Measure Mass 1
## Reasoning and Problem Solving Measure Mass 1

## Developing

1a. 110g
2 a . He needs 5 g of butter and 20 g of chicken.
3a. Hafsa is incorrect. The coconut is the heaviest because it weighs 70 g . The pear only weighs 60 g . The scales increase in different increments.

## Expected

4a. 96g
5 a . She needs 100 g of flour and 2 g of salt.
6a. Steph is incorrect. The aubergine is the heaviest because it weighs 550 g . The potatoes only weigh 500 g . The scales increase in different increments.

## Greater Depth

7 a .192 g ( $7^{\text {th }}$ increment after 136 g )
8 a . She needs 24 g of tomatoes and 16 g of peppers.
9a. Alice is incorrect. They both weigh 128 g so neither is heavier. The scales increase in different increments.

## Developing

1b. 80 g
2 b . She needs 10 g of lettuce and 5 g of cucumber.
3b. Gabriel is incorrect. The melon is the lightest because it weighs 3 kg . The pumpkin weighs 4 kg . The scales increase in different increments.

## Expected

4b. 104 g
5 b. He needs 8 g of sugar and 100 g of butter.
6b. Sean is incorrect. The pineapple is the lightest because it weighs 600 g . The melon weighs 1 kg . The scales increase in different increments.

## Greater Depth

7 b .72 g (half way between 64 g and the next increment)
8 b . He needs 12 g of sugar and 12 g of custard.
9b. Josh is incorrect. The oranges are the lightest because they weigh 136 g . The bananas weighs 150 g . The scales increase in different increments.

