About This Resource

This resource is aimed at Year 3 Expected and has been designed to give children the opportunity to consolidate the skills they have learned in the White Rose Maths Guidance and Examples Summer Block 4 - Mass and Capacity.

The questions are based on a selection of the same 'small steps' that are addressed in the block, but are presented in a different way so children can work through the pack independently and demonstrate their understanding and skills.

Small Steps

Measure mass (1)

Measure mass (2)

Compare mass

Add and subtract mass

Measure capacity (1)

Measure capacity (2)

Compare capacity

Add and subtract capacity

National Curriculum Objectives

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

Mathematics Year 3: (3M1b) Compare mass (kg/g)

Mathematics Year 3: (3M2c) Measure volume/capacity (l/ml) Mathematics Year 3: (3M1c) Compare volume/capacity (l/ml)

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





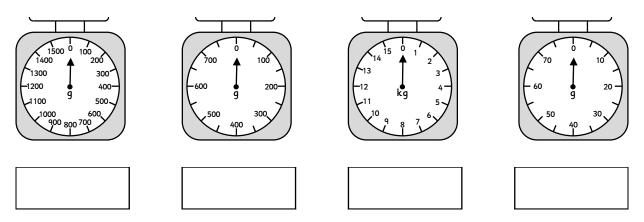


Theo and Safiya are helping at their community centre charity day. They are running a healthy food and drink stall.

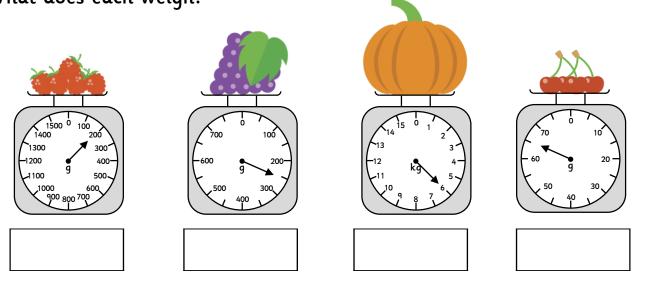
The children understand how important it is for everyone to eat lots of colourful fruit and vegetables and they are hoping that they can get more people to eat them too.

The children are going to be using different scales to weigh the fruit and vegetables.

1a. What increment is each of the scales going up in?



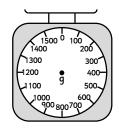
1b. Then they use the scales to weigh the various fruits and vegetables. What does each weigh?

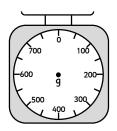


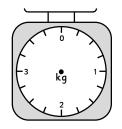
classroomsecrets.com

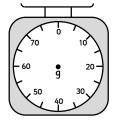
2a. Safiya says that 1kg is equivalent to 100g. Is she correct? Explain why.

2b. Theo is weighing some potatoes for Mrs Smith. She wants 1kg and 500g of potatoes. Circle the scales he could use.





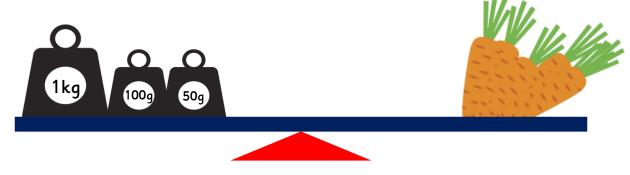




2c. On the scales you have chosen, draw an arrow showing the mass of the potatoes.

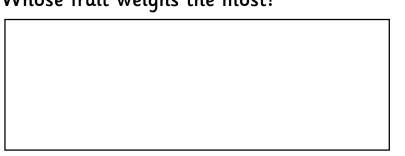
Safiya is using a balance.

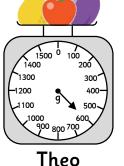
2d. What is the weight of the carrots?

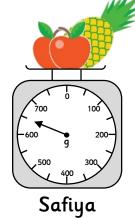


3a. Theo and Safiya are both weighing some fruit to make fruit smoothies.

Whose fruit weighs the most?







classroomsecrets.com

Theo has bagged some vegetables to make his 'souper' healthy soup. 3b. Put them in order from lightest to heaviest so that he can price them up. 5kg 2kg 1,000g 500q Α В C D 3c. Theo has a punnet of strawberries that weigh half a kilogram. He says that it weighs less than a bag of apples. The apples weigh 600g. Is he correct? Explain your answer. 4a. Theo has weighed 2 oranges and 3 apples. Their combined weight is 900q. The weight of each orange is 150g. What is the weight of 1 apple? 150q 150q

b. At the start of the day, Theo and Safiya had 3kg of lemons. They used kg to make lemonade and they sold 800g to Mr Spencer. ow many kg of lemons do they have left?
a. Theo is making the lemonade with the 1kg of lemons. He has juiced the mons to get the lemon juice. ow much lemon juice does he have?
—500ml —400ml —300ml —200ml —100ml
b. He adds the water to the lemon juice using this jug. How much water as he added?
6l 5l 4l 2l 1l
c. How much lemonade has he made with the water and lemon juice?
d. Safiya pours the bucket of fresh water into 2 containers. How much did ne bucket hold?
600ml 500ml 400ml 300ml 200ml 100ml
classroomsecrets.com

© Classroom Secrets Limited 2018 Reasoning and Problem Solving — Consolidation Pack — Year 3 Expected

6a. Theo fills up various bottles with the lemonade. Circle the bottle which has the largest capacity.



6b. Use the symbols >, < and =, to compare these amounts of capacity.

1l and 300ml	2l
100ml	11
2,200ml	2l
6,000ml	6l

7a. Safiya has 11 and 300ml of orange juice left over. She is sharing the liquid out into 300ml cups.

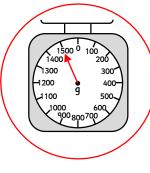
now ma	ny ruii cups	will she haver	

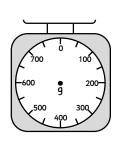
7b	. How much liquid will she have left over?

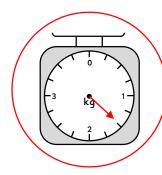
7c. Safiya and Theo have sold 10 cups of tea and 3 cups of coffee. They have used 30ml of milk per cup. How much milk have they used in total?

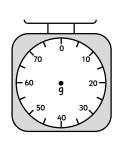
- 1a. 100g; 50g; 1kg; 5g
- 1b. 200q; 250q; 6kq; 65q
- 2a. She is incorrect. 1kq = 1,000q

2b and 2c.









- 2d. 1kg and 150g or 1,150g
- 3a. Safiya has the largest weight of 650g.
- 3b. B,D,C,A
- 3c. Yes he is correct. Half a kilogram is equal to 500g which is less than 600g.
- 4a. 200q
- 4b. 1kg and 200g or 1,200g
- 5a. 350ml
- 5b. 3l and 500ml or 3,500ml
- 5c. 3l and 850ml or 3,850ml
- 5d. 1l and 200ml or 1,200ml
- 6a. 2l bottle
- 6b. <, <, >, =
- 7a. 4
- 7b. 100ml
- 7c. 390ml