Reasoning and Problem Solving Step 3: Compare Mass

National Curriculum Objectives:

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

Differentiation:

Questions 1, 4 and 7 (Reasoning)

Developing Compare the mass of two objects and explain which is heavier or lighter. Using the same unit of measure g or kg in multiples of 1 and 10. Using heavier or lighter to compare.

Expected Compare the mass of two objects and explain which is heavier or lighter. Using some mixed units of measure, kg and g, in multiples of 1 and 5. Using heavier and lighter and the inequality symbols <, > to compare.

Greater Depth Compare the mass of two objects and explain which is heavier or lighter. Using all mixed units of measure, kg and g, in multiples of 1 and 5, with some presented as fractions. Using heavier, lighter and equal to, and the inequality symbols <, > and = to compare.

Questions 2, 5 and 8 (Problem Solving)

Developing Calculate the possible mass of an object using the same unit of measure g or kg in multiples of 1 and 10.

Expected Calculate the possible mass of an object using some mixed units of measure, kg and g, in multiples of 1 and 5.

Greater Depth Calculate the possible mass of an object using all mixed units of measure, kg and g, in multiples of 1 and 5, with some presented as fractions.

Questions 3, 6 and 9 (Problem Solving)

Developing Use the clues and interpret scales to identify the weight of a given object using the same unit of measure g or kg in multiples of 1 and 10. Using heavier or lighter to compare.

Expected Use the clues and interpret scales to identify the weight of a given object using some mixed units of measure, kg and g, in multiples of 1 and 5. Using heavier and lighter and the inequality symbols <, > to compare.

Greater Depth Use the clues and interpret scales to identify the weight of a given object using all mixed units of measure, kg and g, in multiples of 1 and 5, with some presented as fractions. Using heavier, lighter and equal to, and the inequality symbols <, > and = to compare.

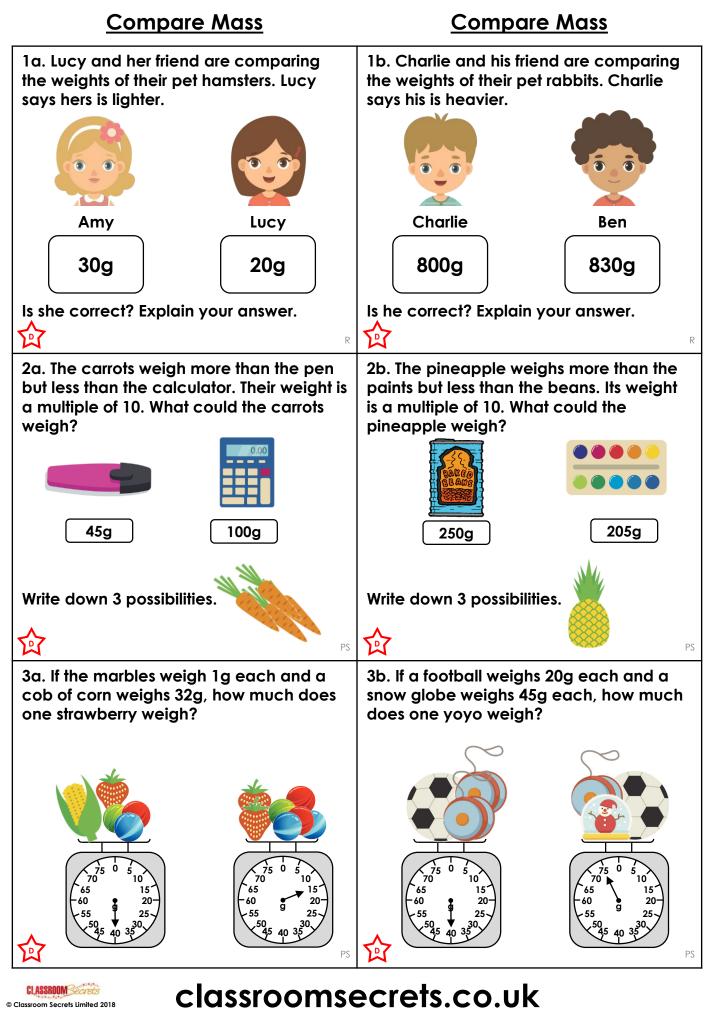
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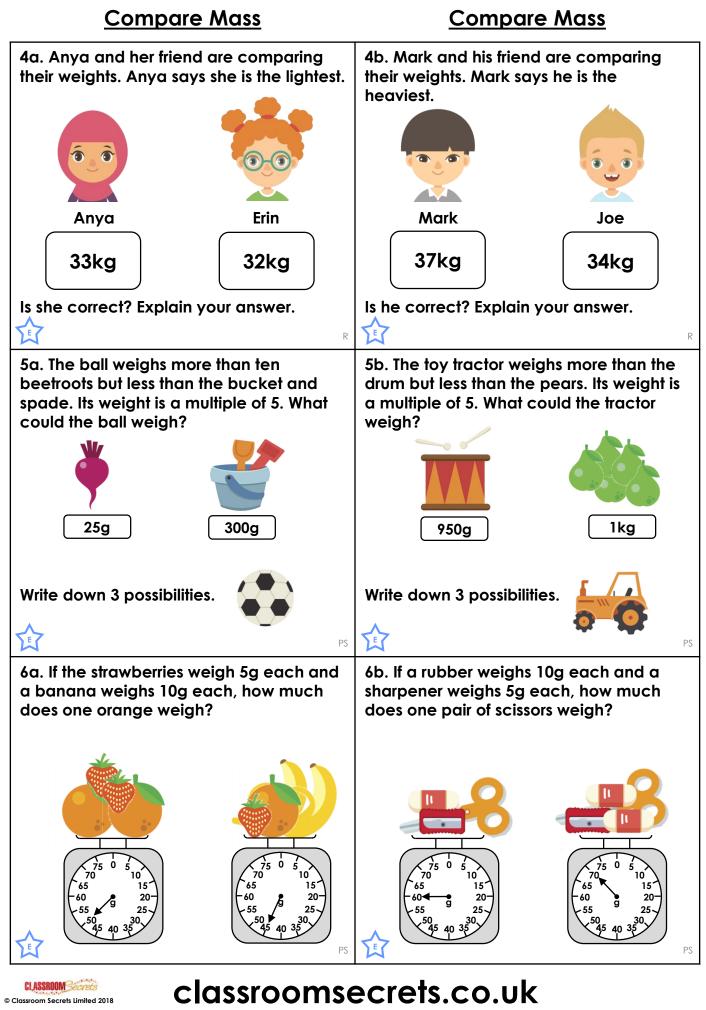


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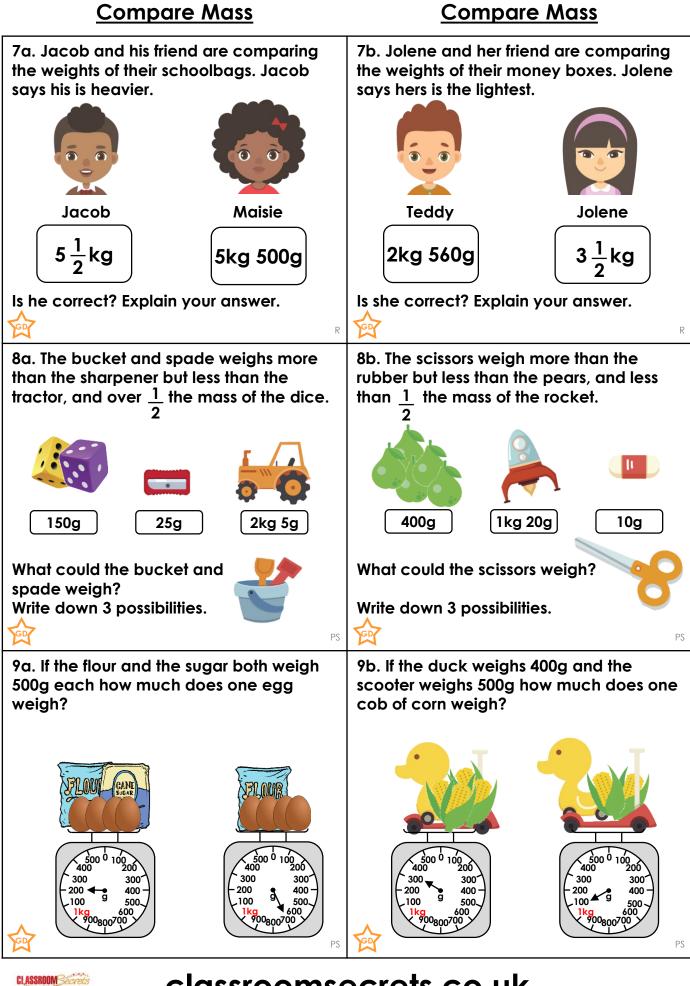
Reasoning and Problem Solving – Compare Mass – Teaching Information



Reasoning and Problem Solving – Compare Mass – Year 3 Developing



Reasoning and Problem Solving – Compare Mass – Year 3 Expected



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Reasoning and Problem Solving – Compare Mass – Year 3 Greater Depth

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<u>Reasoning and Problem Solving</u> <u>Compare Mass</u>

Developing

1a. Lucy is correct because Amy's hamster is 10g heavier.
2a. Various possible answers, for example: 50g, 60g, 70g.
3a. Strawberry = 5g

Expected

4a. Anya is incorrect because she is 100g heavier than Erin.
5a. Various possible answers, for example: 255g, 265g, 275g.
6a. Orange = 20g

<u>Greater Depth</u>

7a. Jacob is incorrect because both bags weigh the same.
8a. Various possible answers, for example:
900g. Any weight in grams between 76g and 2kg 4g.
9a. Egg = 50g

Reasoning and Problem Solving Compare Mass

Expected

1b. Charlie is incorrect because Ben's rabbit is 30g heavier.
2b. Various possible answers, for example: 210g, 220g, 230g.
3b. Yoyo = 10g.

Expected

4b. Mark is correct because Joe is 300g lighter than him.
5b. Various possible answers, for example: 955g, 965g, 975g.
6b. Pair of scissors = 45g

Greater Depth

7b. Jolene is incorrect because Teddy's money box is less than 3kg.
8b. Various possible answers, for example: 200g. Any weight in grams between 11g and 399g.
9b. Corn = 100g



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Reasoning and Problem Solving – Compare Mass ANSWERS