Measurement

Selected National Curriculum Programme of Study Statements

Pupils should be taught to:

- choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels
- solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change

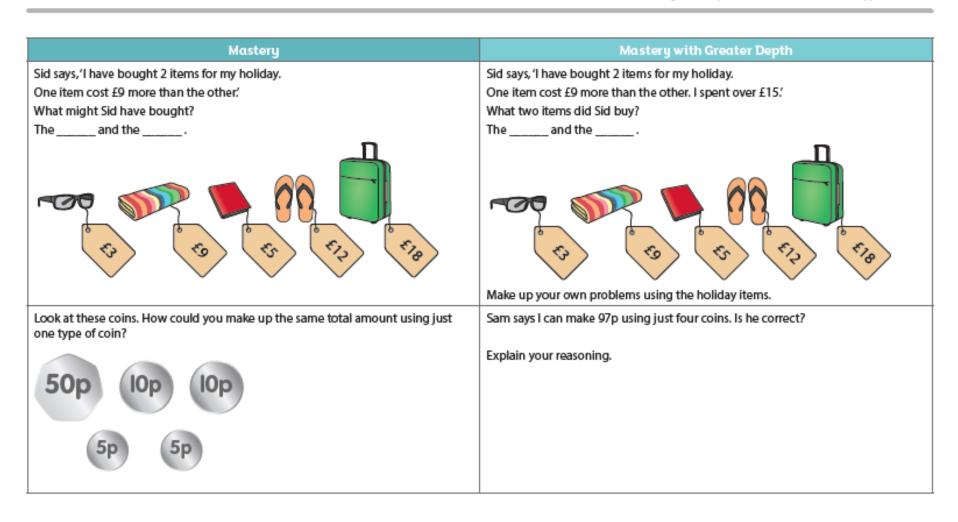
The Big Idea

We need standard units of measure in order to compare things more accurately and consistently.

Mastery Check

Please note that the following columns provide indicative examples of the sorts of tasks and questions that provide evidence for mastery and mastery with greater depth of the selected programme of study statements. Pupils may be able to carry out certain procedures and answer questions like the ones outlined, but the teacher will need to check that pupils really understand the idea by asking questions such as 'Why?', 'What happens if ...?', and checking that pupils can use the procedures or skills to solve a variety of problems.

Mastery	Mastery with Greater Depth
Holly uses a £1 coin to buy a pack of stickers. Here is the change she was given. 20p How much did the pack of stickers cost?	I spend £2 on a drink and sandwich. The sandwich costs 80p more than the drink. How much does the sandwich cost?
Grace uses a £1 coin to buy a can of drink which costs 80p. She is given three coins in change. What coins could she have been given?	Grace uses a £2 coin to buy a can of drink which costs 85 p. She is given four coins in change. Find all the possible combinations of coins she could have been given.



Mastery	Mastery with Greater Depth
This box weighs 10 kg.	What is the mass of two red bags?
How much does each tin of paint weigh?	Which is heavier, the red bag or the green bag?
	Explain your reasoning.
How long is the pencil?	How long is the crayon?
0 1 2 3 4 5 6 7 8 9 10 The pencil is cm long.	The crayon is cm long. How much longer is the crayon than the pencil?

Mastery	Mastery with Greater Depth
Here is a picture of a 1 litre bottle and a 2 litre bottle both with some water in them. What's the same? What's different? 2 bottle	Here is a picture of a 1 litre bottle and a 2 litre bottle with some water in them What's the same? What's different? 2 l bottle
Which of these clock faces shows a time between 5 o'clock and 7 o'clock? Which of these clock faces shows a time between 5 o'clock and 7 o'clock? In the second of these clock faces shows a time between 5 o'clock and 7 o'clock? In the second of these clock faces shows a time between 5 o'clock and 7 o'clock? In the second of these clock faces shows a time between 5 o'clock and 7 o'clock?	Jack says, 'There isn't any point in having a minute hand on a clock because I still tell the time without it.' Do you agree with him? Explain your answer. The property of the property o