Maths - Year 5

Measurement 1: Metric and Imperial Units
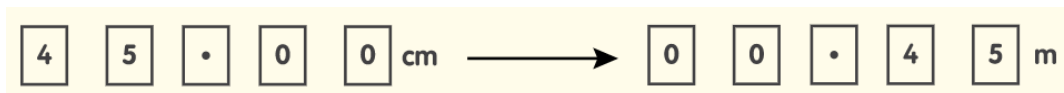
Key Vocabulary

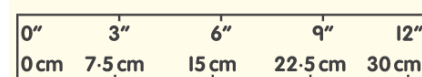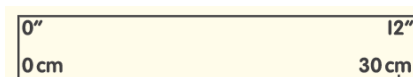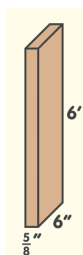|	
Millimetre, centimetre, metre, kilometre	Metric units of length, width, height, depth or distance. 10mm = 1 cm 100cm = 1m 1000m = 1km
Inch, foot, yard, mile	Imperial unit of length, width, height, depth or distance. 12 inches = 1 foot 3 feet = 1 yard 1760 yards = 1 mile
Gram, kilogram	Metric units of weight/mass. 1000g = 1kg.
Ounce, pound, stone, ton	Imperial units of weight/mass. 16 ounces = 1 pound 14 pounds = 1 stone 142.857 stones = 1 ton.
Millilitre, litre	Metric units of capacity. 1000ml = 1l
Pint, gallon	Imperial units of capacity. 8 pints = 1 gallon.

Mathematical Skills

- Understand that there are different scales of measurement.
- Understand that there are different systems of measurement.
- Know that the metric system is more recent than the imperial.
- Appreciate that while the units of the metric system are all based upon multiples of 10, the units of the imperial system use a variety of multiples.
- Give reasonable estimates of length using both metric and imperial units.
- Carry out approximate conversions between common metric and imperial units of length, mass and capacity/volume.
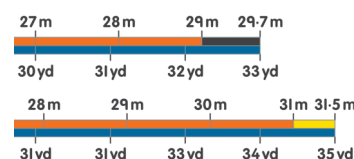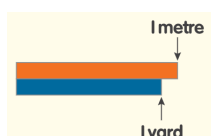
Mathematical Methods

- Converting between metric units of length and distance e.g.

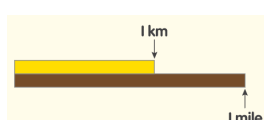$$4 \quad 5 \quad \cdot \quad 0 \quad 0 \text{ cm} \longrightarrow 0 \quad 0 \quad \cdot \quad 4 \quad 5 \text{ m}$$

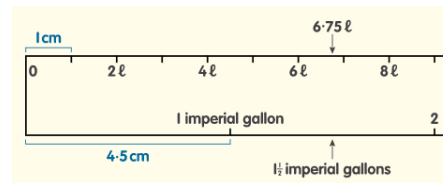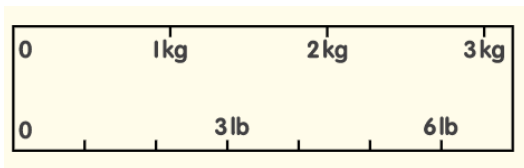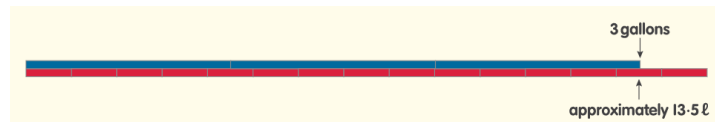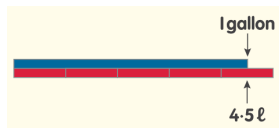- Exploring metric and imperial units of measure.

- Exploring metres and yards.

- Converting between miles and kilometres.

- Converting between imperial and metric units of mass and volume.

1 gallon

4·5ℓ

3 gallons

approximately 13·5ℓ

| 0 | 1 kg | 2 kg | 3 kg |
| 0 | | 3 lb | 6 lb |

1 cm

6·75ℓ

| 0 | 2ℓ | 4ℓ | 6ℓ | 8ℓ |

1 imperial gallon   2

4·5 cm

1½ imperial gallons

Can you..?

- Convert 250mm to centimetres and metres.

- Find the metric approximation for 12 yards.

- Find the imperial approximation for 45cm.

- Approximately, how many kilometres is 26.2 miles?

- A glass hold 0.4 litres. How many glasses can you fill with 1 gallon of juice?