Shape, Space and Measure

**Conversions**
- 10 mm = 1 cm
- 100 cm = 1 m
- 1000 m = 1 km
- 1000 g = 1 kg
- 1000 ml = 1 l
- 60 Seconds = 1 Minute
- 60 Minutes = 1 Hour
- 24 Hours = 1 Day
- 12 Months in 1 Year

**Perimeter**
Is the outside of a shape. Add the edges together.
- 5 cm
- P = 5 + 4 + 5 + 4 = 18 cm

**Area**
Is the inside of a shape.
Area of **Rectangle** = length × width
Area of **Triangle** = \( \frac{1}{2} \times \) base × height

**Surface Area**
The area of each face added together.

**Volume**
volume = length × width × height

**Enlargement**
Scale Factor (S.f.) is what you multiply every length by.
- S.f. of 2 – double each length
- S.f. of 3 – multiply each length by 3
- S.f. of \( \frac{1}{2} \) - half each length

**Scales**
Multiply the length you measure by the appropriate miles or km

This would mean
- 2 cm = 26 km
- 10 inches = 200 miles

**Algebra**

**Substitution into formulas**
Swap the letters for the numbers you know.

E.g. If \( x = 3 \) what is \( y \) when \( y = 2x + 4 \)

\[ y = (2 \times 3) + 4 \]
\[ y = 6 + 4 \]
\[ y = 10 \]

**Speed, Distance and Time Formulas**
- Speed = Distance ÷ Time
- Time = Distance ÷ Speed
- Distance = Speed × Time

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