Maths - Year 5

Measurement 5: Working with area and perimeter

Key Vocabulary		Mathematical Skills
Area	An amount of surface.	 the edge of a shape and area is the amount of surface within a shape. Understand that shapes with the same area can have different perimeters and vice versa. Calculate perimeter in metres based on the properties of a shape. Create composite shapes made from rectilinear shapes. Calculate the area of composite shapes and shapes with non-perpendicular sides. Express the area and perimeter of a rectangle algebraically. Use algebra with known facts to show area or perimeter of rectangles with unknown lengths. Find unknown lengths using known facts about area or perimeter of rectangles. Understand units of area as squares of a given side length, e.g. square metres have a given side length of 1 metre.
Perimeter	The distance around a shape.	
Dimensions	Measureable part of a shape or ob- ject e.g. length, depth, width etc.	
Rectilinear shape	A polygon where all the sides meet at right angles.	
Composite shape	A shape that is made up of a number of different shapes.	
Factor	A number that divides into another number exactly.	
Multiple	The product of two whole numbers.	
Square metre (m²)	A unit used to measure area.	
Square centimetre (cm²)	A unit used to measure area.	

Mathematical Methods

- Investigating shape, area and perimeter.
- E.g. designing a rabbit compound that will give each rabbit 1cm² space.
- Finding the area of composite shapes.



- Calculating area and perimeter of oblongs with unknown lengths.









- Finding an unknown side length from a given area or perimeter.



Area = 5 x *b* $30 \text{ cm}^2 = 5 \text{ x } b$

