

## Planning Overview

## Year 5 Measures – Area and Perimeter

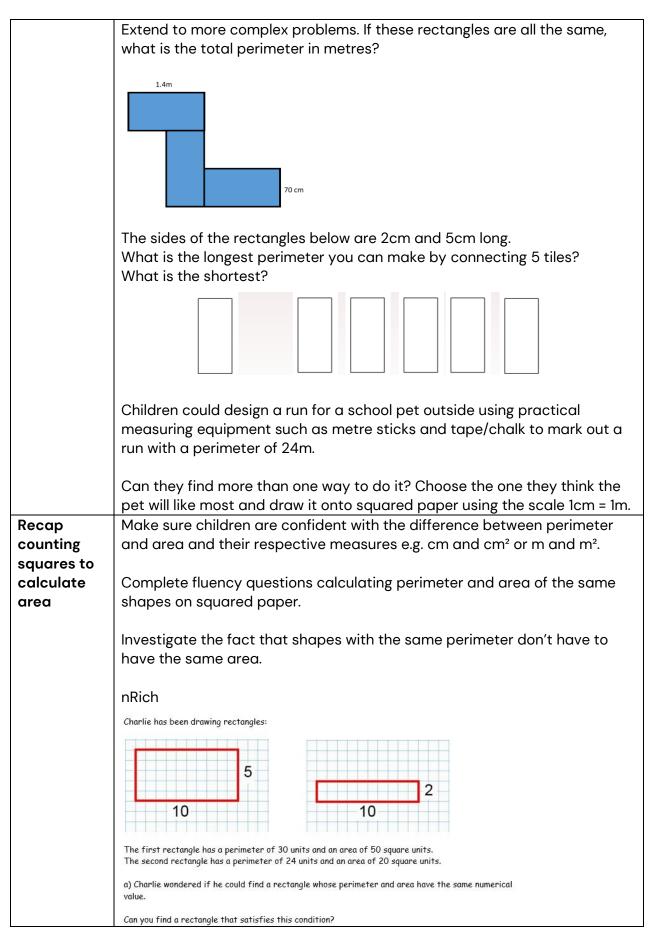
(Time is in a separate plan / Length, Mass, Capacity & Volume are in a separate plan)

Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres

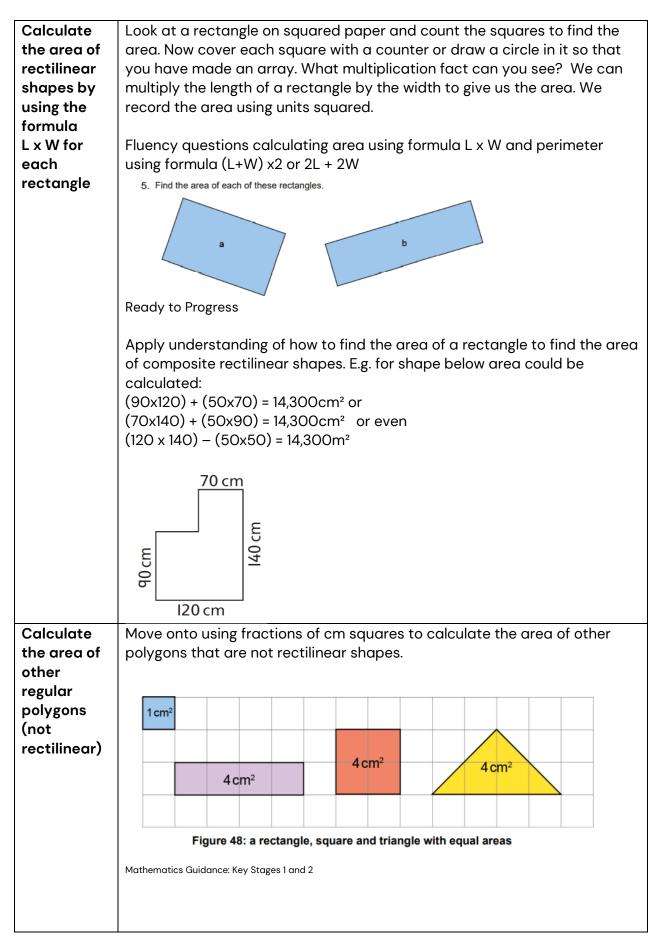
Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes

Recap findingRecap perimeter by measuring the perimeter of some regular sh we need to measure every side? Why not? What about for a recperimeter of up perimeter of uperimeter of up pe		
here with the second se	U	
	How many sides do we need to measure to calculate the perimeter? Is	
regular there more than one way to make the calculation?		
shapes		
For a rectangle with 4cm and 6cm sides, could recognise 4+6=10 double this to find total perimeter or double 4 and double 6 ther that 8 +12 = 20.		
Extend to working out the missing lengths when one side and a p given.	perimeter is	
If the perimeter of a rectangle is 40cm, what length is the other side is 8cm?	side if one	
Children to use scaled drawings where scale is given to calculat perimeter of the shape (e.g. 1cm =3m)	e the	
Measure Look at rectilinear shapes on squared paper. Make sure children	Look at rectilinear shapes on squared paper. Make sure children are	
and confident that the little squares all have a length of 1cm. How do	confident that the little squares all have a length of 1cm. How do we	
calculate calculate the perimeter?	calculate the perimeter?	
the		
perimeter of Can children draw a number of different rectilinear shapes that	Can children draw a number of different rectilinear shapes that all have a	
composite perimeter of 24cm?	perimeter of 24cm?	
rectilinear		
	Move onto looking at perimeters of shapes that are not on squared paper	
	and may have a different scale. Children to establish missing lengths first	
and metres before calculating the perimeter.	before calculating the perimeter.	
20cm 30cm		
30cm		
10cm		
1.5m		
80cm		
10cm 70 cm		
6 cm		











	Calculate the areas of the shapes on the grid below.	
	a	
	b	
	c d	
	Mathematics Guidance: Key Stages 1 and 2	
Estimate the area of irregular	Can children apply knowledge of fractions to estimate the area of shapes that are not polygons e.g. areas on a map?	
shapes	Give the children a map of part of the local area with a range of land uses on copied onto square paper with a scale for each square. Can you	
	estimate the area of each time of land use e.g. lake, woodland, housing, park?	
	Can they draw a circle with an area of roughly 20cm <sup>2</sup> ? e.g. by drawing a square of 16cm <sup>2</sup> and drawing a circle around it.	