

Coloured Chalk Shape™

Curriculum Correlation: Mathematics 5-14



	Level D	Level E	Level F
Measure and Estimate			
Estimate	small areas in easily handled standard units		
Estimate measurements		areas in m ² ; small lengths in mm; larger lengths in m	
Perimeter, Formulae, Scales			
Calculate perimeter	simple straight-sided shapes by adding lengths		
Calculate using rules		areas of rectangles and squares	areas of non-right-angled triangles (given the base and height) and composite shapes
			know and use $C = \pi d$ and $A = \pi r^2$
Use scales		such as 1 cm to 1, or represented by a ratio to interpret or draw maps, plans, or diagrams	extend to scales represented by ratios such as 1:50 000 widely used in maps.
Range of Shapes			
Collect, discuss, make and use 3D and 2D shapes	discuss 2D shapes referring to edges, vertices, diagonals, sides and angles		
	identify and name equilateral and isosceles triangles		
	extend shape vocabulary to radius, diameter, circumference		
	create or copy a tiling using a shape template		

Use properties of 2D and 3D shapes		discuss the side, angle, diagonal properties of quadrilaterals: square and rectangle	
		relate diameter and circumference	
Draw triangles			to scale in applications involving heights and distances
Position and Movement			
Discuss position and movement	use a co-ordinate system to locate a point on a grid	use distances to produce accurate scale drawings of routes	
	create patterns by rotating a shape	calculate distances along grid lines	calculate the direct distance between two points on a co-ordinate grid
			enlarge and reduce shapes using any reasonable scale factor eg. 3, $\frac{1}{2}$
			know and use Pythagoras' Theorem
Symmetry			
Work with symmetry	identify and draw lines of symmetry, generally up to 4	determine whether or not shapes have rotational symmetry	
		move a tile of a shape on a squared grid in order to translate, reflect or rotate the shape	