

PROGRESSIONS OF SKILLS FOR MATHS Geometry – Properties of Shape

0-3 YEARS	NURSERY	RECEPTION	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
POSITION, DIRECTION AND MOVEMENT								
Combine objects like stacking blocks and cups	Understand position through words alone – eg @The bag is under the table’ – with no pointing	Select, rotate and manipulate shapes to develop spatial reasoning skills	describe position, direction and movement, including half, quarter and three-quarter turns.	use mathematical vocabulary to describe position, direction and movement including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise)		describe positions on a 2-D grid as coordinates in the first quadrant	identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed	describe positions on the full coordinate grid (all four quadrants)
Put objects inside others and take them out again	Describe a familiar route					describe movements between positions as translations of a given unit to the left/right and up/down		draw and translate simple shapes on the coordinate plane, and reflect them in the axes.
	Discuss routes and locations using words like ‘in front					plot specified points and draw sides to complete a given polygon		

PROGRESSIONS OF SKILLS FOR MATHS Geometry – Properties of Shape

	of' and 'behind'							
PATTERN								
Notice patterns and arrange things in patterns	Talk about and identify the patterns around them	Continue, copy and create repeating patterns		order and arrange combinations of mathematical objects in patterns and sequences				
	Extend and create ABAB patterns – stick, leaf, stick, leaf							
	Notice and correct and error in a repeating pattern							
	Begin to describe a sequence of events, real or fictional, using words such as 'first', ;then'							
CORE VOCABULARY								

PROGRESSIONS OF SKILLS FOR MATHS Geometry – Properties of Shape

inside, outside, on, next to, under, pattern, same	first, then, next, after, inside, outside, on, under, next to, behind, in front	inside, outside, on, under, below, above, next to, behind, in front of, turn, up, down, left, right	Over, under, underneath, above, below, top, bottom, on, in, outside, inside, around, in front, behind, front, back, before, after, beside, next to, opposite, apart, left, right, up, down, forwards, backwards, along, through, slide, roll, turn, whole turn, half turn	Rotation, clockwise, anti-clockwise, straight-line, ninety-degree turn, right angle	Greater/less than, ninety degrees, orientation, same orientation, different orientation	Co-ordinates, triangles, right angle, acute and obtuse angles, translation, quadrant, X axis, Y axis, perimeter, area	Reflex angles, dimensions	Four quadrants, vertically opposite angles, circumference, radius, diameter
--	---	---	---	---	---	---	---------------------------	---