

## Geometry: Position and Direction with Reasoning



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Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
POSITION, DIRECTION AND MOVEMENT								
describe position,	use mathematical		describe positions on a	identify, describe and	describe positions on the			
direction and movement,	vocabulary to describe		2-D grid as coordinates in	represent the position of a	full coordinate grid (all			
including half, quarter and	position, direction and		the first quadrant	shape following a	four quadrants)			
three-quarter turns.	movement including			reflection or translation,				
	movement in a straight		describe movements	using the appropriate	draw and translate simple			
	line and distinguishing		between positions as	language, and know that	shapes on the coordinate			
	between rotation as a		translations of a given unit	the shape has not	plane, and reflect them in			
	angles for quarter half		to the left/right and	changed	the axes.			
	and three-quarter turns		up/down					
	(clockwise and							
	anti-clockwise)							
			plot specified points and					
			draw sides to complete a					
			given polygon					
Working backwards	Working backwards	Working backwards	Working backwards	Working backwards	Working backwards			
The shape below was	If I face forwards and turn	If I make the two opposite	Here are the co-ordinates	A square is translated 3	I wo triangles have the			
full turn and and ad up	three quarter turns	sides of a square 5 cm	of corners of a rectangle	squares down and one	Triangle A:			
looking like this	turn anti clockwise	those sides are 27cm	which has which of 5. $(7, 2)$ and $(27, 2)$	Square to the right.	$(2 \in (7 \in (4 = 7)))$			
	describe my finishing	What was the size of my	(7, 5) and $(27, 5)What are the other two$	of the translated square	(3, 3) (7, 3) (4, 7) Triangle B:			
0	nosition	original square?	co-ordinates?	are.	(3 1) (7 1) (4 3)			
		What is the name and size	co oranaces.	(3.6) (8.11) (8.6)	Describe the translation of			
What did it look like when		of my new shape?		What are the co-ordinates	triangle A to B and then			
it started? (practical)		, ,		of the original square?	from B to A.			



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PATTERN							
	order and arrange combinations of						
	mathematical objects in patterns and sequences						
	What comes next? Explain why						