



Mathematics Key Learning – Geometry: Position & Direction

'Working together to achieve success'

Statements taken from the National Curriculum 2014

Additional statements to support progression in learning.



EYFS - SPACE					
Understand and use positional language in everyday situations	Understand and use ordinal numbers when describing position	Understand and use the language of movement/direction	Describe and recognise patterns made of objects, numbers and shapes	Create patterns made of objects, numbers and shapes	
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
POSITION, DIRECTION AND MOVEMENT					
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)	<i>Describe positions on a square grid labelled with letters and numbers.</i>	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)
			describe movements between positions as translations of a given unit to the left/right and up/down	<i>Describe positions on the first quadrant of a coordinate grid.</i>	draw and translate simple shapes on the coordinate plane, and reflect them in the axes.
			plot specified points and draw sides to complete a given polygon	<i>Plot specified points and complete shapes.</i>	
PATTERN					
<i>Recognise and create repeating patterns with objects and shapes.</i>	order and arrange combinations of mathematical objects in patterns and sequences				
VOCABULARY					
position, over, under, underneath, above, below, top, bottom, side, on, in, outside, inside, around, in front, behind, front, back, before, after, beside, next to, opposite, apart, between, middle, edge, centre, direction, journey, left, right, up, down, forwards, backwards, sideways, across, close, far, near, along, through, to, from, towards, away from, half, quarter, three-quarter(s), turn, time, hour, minute, o'clock, half past, clock, watch, hands, face	sequence, patterns, order, position, first, second, third..., over, under, underneath, above, below, top, bottom, side, on, in, outside, inside, around, in front, behind, front, back, before, after, beside, next to, opposite, apart, between, middle, edge, centre, direction, journey, left, right, up, down, forwards, backwards, sideways, across, close, far, near, along, through, to, from, towards, away from, half, quarter, three-quarter(s), turn, clockwise, anti-clockwise,	position, direction, movement, angle, turn, rotation, right-angle, half turn, quarter turn, three-quarter turn, clockwise, anticlockwise, straight line, grid, forwards, backwards, right, left	line, curved, straight, vertex, side, sort, regular, irregular, 2-D, two-dimensional, circle, circular, semi-circle, triangle, triangular, equilateral triangle, isosceles triangle, square, rectangle, rectangular, oblong, pentagon, pentagonal, hexagon, hexagonal, heptagon, octagon, octagonal, polygon, quadrilateral, lines of symmetry, fold, mirror line, reflection, reflect, horizontal, vertical, angle, acute angle, obtuse angle, degree, perpendicular, parallel, Venn diagram, Carroll diagram, classify, origin, coordinates, diagonal, quadrant, whole turn, half turn, quarter turn, rotate, angle, right angle, acute, obtuse, degree	position, corner, direction, grid, row, column, origin, coordinates, horizontal, vertical, diagonal, parallel, perpendicular, x-axis, y-axis, quadrant, movement, angle, ...is a greater/smaller angle than, right angle, acute, obtuse, degree, angle measurer, protractor, property, curved, straight, face, side, congruent, vertex, vertices, regular, irregular	coordinate, quadrant, plane, axis, axes, reflect, reflection, mirror line, line of symmetry, image, angle, translate, translation, transformation, coordinate, orientation 2-D, two-dimensional, circle, circular, semi-circle, triangle, triangular, equilateral triangle, isosceles triangle, scalene triangle, square, rhombus, rectangle, rectangular, oblong, pentagon, pentagonal, hexagon, hexagonal, heptagon, octagon, octagonal, polygon, quadrilateral, kite, parallelogram, trapezium, vertex,