



Year 7 : Support Scheme of Work for pupils working at Levels 2 and 3
 Shape, space and measures 2 (4 hours)

Lesson	Learning Objective	Learning Outcomes			Lesson strategies, activities and ideas	Resources
		Must	Should	Could		
1	Use mathematical vocabulary to describe position, direction and movement, include the 4 compass directions.	<p>Recognise whole, half and quarter turns, to the left or right, clockwise or anti-clockwise. Know that a right angle is a measure of a quarter turn, and recognise right angles in squares and rectangles.</p> <p>Recognise and use the four compass directions N, S, E, W.</p>	<p>Make and describe right-angled turns, including turns between the four compass points.</p> <p>I identify right angles in 2-D shapes and the environment.</p> <p>Recognise that a straight line is equivalent to two right angles.</p> <p>Compare angles with a right angle.</p>	<p>Begin to know that angles are measured in degrees and that:</p> <p>one whole turn is 360° or 4 right angles; a quarter turn is 90° or one right angle;</p> <p>Make and measure clockwise and anti-clockwise turns: for example, from W to N, or from 9 to 12 on a clock face.</p>	<p>I deas : pupils make up instructions for a counter to move around a grid e.g. to negotiate a simple maze.</p>	<p>PFWK y123 p. 87, 89 PFWK y 456 p. 108</p>



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2	I identify parallel and perpendicular lines. Know the terms horizontal and vertical. Recognise the properties of rectangles.	Given 2 pairs of lines, identify if they are parallel or perpendicular. Know the basic properties of a rectangle.	Be able to identify pairs of parallel and perpendicular lines from a set of lines.	I identify parallel and perpendicular lines from a shape e.g. on a hexagon, etc..	TL4 Y7 Lesson S2.2 main activity includes good questions. Key vocabulary needs to be understood. Relate to everyday situations e.g. corners of desks, floors and ceilings etc..	PFWK y 456 p. 108 TL4 Y7 Lesson S2.2 S/board p. 269
3	Recognise positions; read and plot coordinates in the first quadrant.	Plot coordinates as ordered pairs on a grid from 0 to 6.	Read and plot coordinates in the first quadrant (axes from 0 to 10)	Plot and read a set of coordinates they have chosen.	Starter : TL4 Y7 Lesson S2.4 Main : TL4 Y7 Lesson S2.4 main activity (but omit x and y axis references) Some pupils will need to write coordinate pairs as e.g. ' 3 along and 2 up' before progressing to the notation (3,2) I TP :Coordinates	PFWK y456 108 TL4 Y7 Lesson S2.4 OHT S2.4a, b S/board p. 276, 278, 279
4	Read and plot coordinates in the first quadrant, joining points to create shapes.	Plot a small number of points, join together in order to make a shape.	Plot a small number of points, join together in order to make a recognised shape e.g. square, rect, triangle.	Draw a shape and write down the coordinates in order.		S/board p. 280