EYFS progression map from birth to the end of Reception year

Area of Learning Mathematics Shape, Space and Measures

Concept:

Shape and Space

Mathematically, the areas of shape and space are about developing visualising skills and understanding relationships, such as the effects of movement and combining shapes together, rather than just knowing vocabulary. Spatial skills are important for understanding other areas of maths and children need structured experiences to ensure they develop these. Here, the focus is on actively exploring spatial relations and the properties of shapes, in order to develop mathematical thinking (rather than on shape classification, which requires prior knowledge of properties). This section is concerned with developing the two aspects of snatial awareness and shape awareness, with some progression identified within each

Typical progression within this concept		Developing spatial awareness:	Some progression identified Shape awareness: developing shape	Representing spatial relationships	Identifying similarities between	Showing awareness of properties of	Describing properties of shape	Developing an awareness of
		experiencing different viewpoints	awareness through construction	hepresenting spatial relationships	shapes	shape	bestiming properties of shape	relationships between shapes
Progression steps to enable typical progression within this concept	Birth – 3	I can select shapes which will fit when rotated or flipped in insert boards, shape sorters and jigsaws I can engage in exploratory play with shapes.		I can use gesture and limited talk (e.g. 'there') to indicate the position of something that has been asked for.				
	3-4 yrs	I can ride trikes around different routes I can direct a friend around an obstacle I can take part in various construction a I can print and making pictures and pat I can select shapes appropriately e.g. fla prism shape for a roof etc. I can combine shapes to make new one	course using spatial vocabulary. activities terns with shapes at surfaces for building, a triangular	I can respond to the use of everyday positional language e.g. I put my bag under my chair, I put my lunchbox in my bag etc. I can use everyday positional language in my day to day talk.	I know the names of the 2D shapes circle, square, rectangle and triangle. I can give simple explanations about why I have chosen a particular shape or object using everyday language for its properties e.g. I needed something flat for teddy to lie on.			
	Reception	I can make a complete circuit with a train track I can direct a simple robot or remote-controlled toy vehicle along a route I can see things from other viewpoints. E.g. With toys in a line 'Can you say what the teddy on the other side is seeing?'		I can respond to more specific positional language correctly. I can describe the position of things using more specific positional language.	particular need e.g. choosing flat faced correctly to complete a complex 2D or	e properties of the 4 basic 2D shapes.		I can spot shapes within shapes. I can investigate how shapes can be combined to create different shapes.