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 spatial awareness and shape awareness, with some progression identified within each

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Typical progression within		n	Developing spatial awareness:	Shape awareness: developing shape	Representing spatial relationships	Identifying similarities between	Showing awareness of properties of	Describing properties of shape	Developing an awareness of
this concept			experiencing different viewpoints	awareness through construction		shapes	shape		relationships between shapes
Progression steps to			I can select shapes which will fit when rotated or flipped in insert boards,		I can use gesture and limited talk				
enable typical		æ	shape sorters and jigsaws		(e.g. 'there') to indicate the position				
progression within this		1	I can engage in exploratory play with shapes.		of something that has been asked				
concept		ŧ			for.				
		8							
			I can ride trikes around different routes to get to the same end point		I can respond to the use of everyday	I know the names of the 2D shapes circle, square, rectangle and triangle.			
			I can direct a friend around an obstacle course using spatial vocabulary.		nositional language e.g. Lout my bag L can give simple explanations about why L have chosen a particular shape or object using everyday language for its				
		s	I can take part in various construction a		under my chair. I put my lunchboy in	properties e.g. I needed something flat for teddy to lie on.			
		, Yr	I can print and making pictures and patt	torns with shapos	with change my bag etc				
		3-4	I can plint and making pictures and path	terris with shapes	liny bdg etc.				
			r can select shapes appropriately e.g. ha	at surfaces for building, a triangular	leasures is students dentally				
	★		prism snape for a roof etc.		language in my day to day talk.				
	-		I can combine shapes to make new ones e.g. An arch or a bigger triangle						
			I can make a complete circuit with a tra	lin track	I can respond to more specific	I can select, rotate and manipulate 2D	and 3D shapes, construction materials as	well as found objects to fulfil a	I can spot shapes within shapes.
		c	I can direct a simple robot or remote-co	ontrolled toy vehicle along a route	positional language correctly.	particular need e.g. choosing flat faced	I 3D shapes to build a tower, selecting the	correct shapes and orienting them	I can investigate how shapes can be
		tio	I can see things from other viewpoints.	E.g. With toys in a line 'Can you say	I can describe the position of things	correctly to complete a complex 2D or	3D shape picture		combined to create different shapes.
		ept	what the teddy on the other side is seei	ing?'	using more specific positional	I know the names of the 3D shapes cut	pe, sphere, square based pyramid, triangu	lar based pyramid, cuboid and	
		sec			language.	triangular prism.			
		<u> </u>				I know the properties of the 4 basic 2D	shapes.		
						I know the properties of the 3D shapes			