

# Maths Knowledge Progression

This document sets out the expectation for Maths learning in each term for each year group. It is divided into sections within different parts of the maths curriculum.

## Garden Class

	EYFS			Year 1			Year 2		
	Geometry: Position and Direction								
	Autumn	Spring	Summer	Autumn	Spring	Summer	Autumn	Spring	Summer
Position, direction and movement.	To be able to describe the position of an object.		To visualise from different positions.			Describe position and direction and movement, including whole, 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 anticlockwise)
			To describe positions.			To practise ordering e.g. 1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> (non-statutory)			
			To give instructions to build						
			To explore mapping						
			To represent maps with models						
			To create own maps from familiar places.						
Pattern	To match pictures and objects.	To identify more complex patterns.	To continue patterns beyond 10. (10-20)						Order and arrange combinations of mathematical objects in patterns and sequences.
	To identify a set and sort objects into different types.	To copy and continue patterns.	Verbally count patterns.						
	To explore sorting techniques and create simple rules and patterns.	To recognise patterns in the environment.	To identify units of repeating patterns						
	To copy and continue a simple pattern then be able to create their own simple pattern,		To create and explore own pattern rules						
			To replicate and build scenes and constructions.						
			To look at patterns and relationships.						



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## Lower KS2

		Year 3			Year 4		
		Geometry: Position and Direction					
Position, direction and movement.	Autumn	Spring	Summer	Autumn	Spring	Summer	
					Describe positions on a 2-D grid as coordinates in the first quadrant	Describe movements between positions as translations of a given unit to the left/right and up/down	Plot specified points and draw sides to complete a given polygon.

## Upper KS2

		Year 5			Year 6		
		Geometry: Position and Direction					
Position, direction and movement.	Autumn	Spring	Summer	Autumn	Spring	Summer	
			Identify, describe and represent the position of a shape following a reflection or translation.	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 positions on the full coordinate grid (all four quadrants)	Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.
					Draw and translate simple shapes on in one quadrant.		