

## **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** 

<u> </u>	EYFS				Year 1		Year 2		
					try: Properties of Shapes				
Identifying Shapes and their Properties	Autumn Identify and name circles and triangles	Spring Recognise and name 3- D shapes.	Summer To select shapes for a purpose.	Autumn  Recognise and name common 2-D and 3-D shapes, including:  2-D shapes [for example, rectangles (including squares), circles and triangles]  3-D shapes [for example, cuboids (including cubes), pyramids and	Spring	Summer	Autumn Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line	Spring	Summer
	Recognise shapes in the environment.	Find 2-D shapes within 3-D shapes	To find 2-d shapes within 3d shapes.	spheres].			Identify and describe the properties of 3-D shapes, including the number of edges,		
epl	Identiy and name shapes with 4 sides.						vertices and faces Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and		
constructing			To compose and decompose shapes.				a triangle on a pyramid]		
Drawing and o			To copy 2-D shape pictures.						
Comparing and classifying	Compare circles and triangles	Use 3-D shapes for tasks	To rotate and manipulate shapes.				Compare and sort common 2-D and 3-D shapes and everyday objects.		
Compar	Find shapes in the environment	Find 3-D shapes in the environment.	To explain shape arrangements.	Sort 2-D and 3-D shapes					

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Angles					



## **Maths Knowledge Progression**

Lower KS2

Lower		Year 3		Year 4			
			Geometry: Properti				
lapes and erties	Autumn  draw 2-D shapes and make 3-D  shapes using modelling materials;	Spring	Summer  draw 2-D shapes and make 3-D shapes using modelling materials;	Autumn identify lines of symmetry in 2-D shapes presented in different	Spring	Summer	
	recognise 3-D shapes in different orientations and describe them		recognise 3-D shapes in different orientations and describe them	orientations  complete a simple symmetric figure	complete a simple symmetric figure	complete a simple symmetric figure	
Identifying Shapes their Properties			T	with respect to a specific line of symmetry.	with respect to a specific line of symmetry.	with respect to a specific line of symmetry.	
Ident th							
ס							
constructing							
and cons							
Drawing ar							
۵							
classifying				compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes	compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes	compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes	
and							
Comparing							
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	recognise angles as a property of shape or a description of a turn	identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify	identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify	identify acute and obtuse angles and compare and order angles up to two right angles by size			
gles		whether angles are greater than or less than a right angle	whether angles are greater than or less than a right angle				
Ang	identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify	identify horizontal and vertical lines and pairs of perpendicular and parallel lines.	identify horizontal and vertical lines and pairs of perpendicular and parallel lines.				
	whether angles are greater than or less than a right angle						

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identify horizontal and vertical lines and pairs of perpendicular and parallel lines.						



## **Maths Knowledge Progression**

Upper KS2

		Year 6	6				
			Geometry: Propertie				
	Autumn	Spring	Summer	Autumn	Spring	Summer	
	identify 3-D shapes, including cubes				illustrate and name parts of circles,	illustrate and name parts of circles,	
and	and other cuboids, from 2-D				including radius, diameter and	including radius, diameter and	
S a	representations				circumference and know that the	circumference and know that the	
pe					diameter is twice the radius	diameter is twice the radius	
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tify							
Identifying Shapes at their Properties							
2							
		[ ]		de 2 Deleges de de la constant	Line 2 Balance described	du 2 Bahasa da da da	
		draw given angles, and measure		draw 2-D shapes using given	draw 2-D shapes using given	draw 2-D shapes using given	
<u> </u>		them in degrees (o )		dimensions and angles	dimensions and angles	dimensions and angles	
<del>`</del> <u></u>					recognise, describe and build simple	draw 2-D shapes using given	
2		·			3-D shapes	dimensions and angles including nets	
constructing							
Ö							
and							
a D							
Drawing							
la Š							
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		use the properties of rectangles to		compare and classify geometric		compare and classify geometric	
		deduce related facts and find missing		shapes based on their properties and		shapes based on their properties and	
		lengths and angles		sizes and find unknown angles in any		sizes and find unknown angles in any	
5				triangles, quadrilaterals and regular		triangles, quadrilaterals, and regular	
Ş				polygons		polygons	
ssifying		distinguish between regular and		70		1 70 -	
clas		irregular polygons based on					
		reasoning about equal sides and					
an		angles.					
Comparing and		ungics.				1	
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	know angles are measured in			recognise angles where they meet at			
	degrees: estimate and compare			a point, are on a straight line, or are			
v	acute, obtuse and reflex angles			vertically opposite, and find missing			
g e	,			angles.			
Angles							