

## **Mathematics Curriculum Progression Map**

## Number: Geometry – Properties of Shape

<u>EYFS</u>		Voca 4	V2	Voor 2	Voca A	Voor F	Veen
3-4 Year olds	Reception	<u>Year 1</u>	Year 2	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>
	Identifying Shapes and their Properties						
Talk about and		Recognise and	Identify and		Identify lines of	Identify 3-D	Recognise,
explore 2D and		name common	describe the		symmetry in 2-D	shapes, including	describe and
3D shapes e.g.		2-D and 3-D	properties of 2-D		shapes presented	cubes and other	build simple 3-D
circles,		shapes, including:	shapes, including		in different	cuboids, from 2-D	shapes, including
rectangles,		o 2-D shapes e.g.	the number of		orientations	representations	making nets
triangles and		rectangles	sides and line				(cross reference -
cuboids, using		(including	symmetry in a				Drawing and
mathematical		squares),	vertical line				Constructing)
language: sides,		circles and	Identify and				Illustrate and
corners,		triangles	describe the				name parts of
straight, flat,		o 3-D shapes e.g.	properties of 3-D				circles, including
round		cuboids	shapes, including				radius, diameter
		(including	the number of				and
		cubes),	edges, vertices				circumference
			and faces				and know that

		pyramids and	Identify 2-D				the diameter is
		spheres	shapes on the				twice the radius
		sprieres	surface of 3-D				twice the radius
			shapes, for				
			example, a circle				
			on a cylinder and				
			a triangle on a				
			pyramid				
				l Constructing			
Select shapes	Select, rotate and		Children daw lines	Draw 2-D shapes	Complete a	Draw given	Draw 2-D shapes
appropriately,	manipulate		and shapes using	and make 3-D	simple symmetric	angles, and	using given
e.g. flat surface	shapes to develop		a straight line	shapes using	figure with	measure them in	dimensions and
for building, a	spatial reasoning		(Non-Statutory	modelling	respect to a	degrees °	angles
triangular prism	skills.		Guidance)	materials;	specific line of	J	
for a roof.				recognise 3-D	symmetry		
	Challenge the			shapes in			
Combine shapes	children to copy			different	Children draw		
to make: new	increasingly			orientations and	symmetric		
ones, e.g. an	complex 2D			describe them	patterns using a		
arch or a bigger	pictures and				variety of media		
triangle; pattern	patterns with 3D				to become		
blocks; and	resources, guided				familiar with		
interlocking	by knowledge of				different		
shapes.	learning				orientations of		
	trajectories				lines of symmetry;		
Challenge the	Compose and				and recognise line		Recognise,
children to build	decompose				of symmetry in a		describe and
increasingly	shapes so that				variety of		build simple 3-D
complex	children recognise				diagrams,		shapes, including
constructions	a shape can have				including where		making nets
	other shapes				the line of		(cross reference -
	within it, just as a				symmetry does		Identifying Shapes
	number can, e.g.				not dissect the		

two triangles can fit together to			original shape (Non-statutory		and their Properties)			
make a square;			Guidance)					
find 2D shapes								
within 3D shapes.								
	Comparing and Classifying							
	Compare and sort		Compare and	Use the	Compare and			
	common 2-D and		classify geometric	properties of	classify geometric			
	3-D shapes and		shapes, including	rectangles to	shapes based on			
	everyday objects		quadrilaterals and	deduce related	their properties			
			triangles, based	facts and find	and sizes and find			
			on their	missing lengths	unknown angles			
			properties and	and angles	in any triangles,			
			sizes	Distinguish	quadrilaterals,			
				between regular	and regular			
				and irregular	polygons			
				polygons based	1 70			
				on reasoning				
				about equal sides				
				and angles				
Angles								
		Recognise angles	Identify acute and	Know angles are				
		as a property of	obtuse angles and	measured in				
		shape or a	compare and	degrees: estimate				
		description of a	order angles up to	and compare				
		turn	two right angles	acute, obtuse and				
			by size	reflex angles				
		Identify right		Identify:	Recognise angles			
		angles, recognise		<ul><li>angles at a</li></ul>	where they meet			
		that two right		point and one	at a point, are on			
		angles make a			a straight line, or			
		half-turn, three			are vertically			

make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle	whole turn (total 360°)  angles at a point on a straight line and ½ a turn (total 180°)  other multiples of	opposite, and find missing angles
Identify horizontal and vertical lines and pairs of perpendicular and parallel lines		