

CAPTAIN WEBB PRIMARY SCHOOL

Maths Curriculum – Key Knowledge and Skills

States of the number of the number of the number of the number of the signarry in vertical line. Knows the term 3D and knows the ter			Daycare 2/Rising 3	Nursery Pre-School (3s)	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Image: State of the state	e(Fluency)	tween facts	2/Rising 3 Knows spatial words like on top of, up, down and	Pre-School (3s) Reception GE Knows the term 2D and knows the informal and formal mathematical language associated Knows Knows characteristic s of everyday objects and shapes and uses mathematical language to	GEC I Knows characteristic s of everyday objects and shapes and uses mathematical language to describe	OMETRY- Identifying Comparin Knows the mathemati cal names of 2d and 3d shapes.	- PROPER g shapes & t ing & Classi Knows that symmetry is reflection in a vertical line. Know the properties of 2d shapes including the number of	TIES OF S their propert fying Shape Knows and can recognise different types of lines (horizontal/vert ical, pairs of parallel and	SHAPE ties. es Knows the properties of regular and irregular polygons focusing on different quadrilaterals.	Knows the conventional markings for parallel lines and right angles. Knows the term	Knows the properties of geometric shapes. Knows the parts of the circle.
				language associated with it. Eg circle, rectangles, triangles, side, corner, flat, round. Knows the term 3D and know the informal and formal mathematical	mathematical language to describe		properties of 2d shapes including the number of lines and line symmetry in vertical line. Know the properties of 3d shapes including number of edges, vertices and faces. Knows and can recognise 2d	parallel and	quadrilaterals. Knows the different	Knows the term diagonal and can make conjectures about the angles formed between sides, and between diagonals and parallel sides, and other properties of	of the circle. Knows that the diameter is twice the



PROCEDUAL KNOWLEDGE: Methods Relationships between facts, procedures and missing facts.	Knows how to complete inset puzzles. Knows how to use blocks to create simple structures including lines of identical shapes. Knows how to make simple constructio ns by stacking or clicking together.	Knows how to select shapes for a purpose Eg cone for a roof. Knows how to combine shapes to make a new one Eg bigger triangles.	Knows how to rotate and manipulate shape to develop special reasoning skills.		Knows how to compare and sort 2d and 3d shapes (including everyday objects)	Knows how to describe 2D and 3D shapes using accurate language including taught lines, acute and obtuse angles.	Knows how to compare lengths and angles to decide if a polygon is regular or irregular: Knows how to classify and compare shapes using mathematical properties. Knows how to classify and compare triangles based on their properties.	Knows how to use the properties of rectangles to deduce related facts and find missing lengths and angles. Know how to distinguish between regular and irregular polygons based on reasoning about equal sides and angles. Know how to identify 3-D shapes, including cubes and other cuboids, from 2-D representations.	Knows how to compare and classify geometric shapes based on their properties.
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			Drawi	ng & Cor	structing s	Shapes			
	Daycare 2/Rising 3	Nursery Pre-School (3s)	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
DECLARATIVE KNOWLEDGE: Facts and formulae, relationships(Fluency)					Knows that a ruler can be used to draw straight, accurate lines.	Knows the names of 3-D shapes in different orientations and describe them	Knows that lines of symmetry in a 2D shape can be presented in different orientations.	Knows that angles are measured in degrees using a protractor.(R)	Knows that 3D shapes can be identified by net drawings.
PROCEDUAL KNOWLEDGE: Methods Relationships between facts, procedures and missing facts.			Knows how to compose and decompose shapes to recognise a shape can have another shape within it. Knows how to use own ideas to make models of increasing complexity, selecting blocks needed, solving problems and visualising what I will need.		Knows how to draw basic 2D shapes using a straight edge.	Knows how to draw 2-D shapes Knows how to make 3-D shapes using modelling materials	Knows how to complete a simple symmetric figure with respect to specific line of symmetry.	Knows how to draw given angles and measure them using a protractor (R)	Knows how to draw 2-D shapes using given dimensions and angles. Knows how to describes and builds simple 3D shapes including making nets.



		An	gles				
DECLARATIVE KNOWLEDGE: Facts and formulae(Fluency) Relationships between facts			_	Knows that two right angles make a half turn, three make three quarters of a turn and four a complete turn Knows and can recognise right angles in 2d shapes. Knows what acute and obtuse angles are in relation to right angles.	Knows the properties of acute and obtuse angles. Knows that two right angles form a straight line.	Knows that angles are measured in degrees using a protractor. Knows that angles at a point and one whole turn equal 360° Knows that angles at a point on a straight line equals 180°	Knows that angles that meet at a point, or are on a straight line total certain degrees. Knows that vertically opposite angles are equal.
PROCEDUAL KNOWLEDGE: Methods Relationships between facts, procedures and missing facts.					Knows how to compare and order angles up to two right angles by size	Knows how to identify right, acute, obtuse, straight, and reflex angles and can estimate and compare them. Knows how to draw given angles and measure them using a protractor. Knows how to use angle facts and other properties to make deductions	Knows how to find unknown angles on a straight, round a point and in any triangles quadrilaterals and regular polygons



			about missing angles and lengths
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	Daycare 2/Rising 3	Nursery Pre-School (3s)	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		Slanty	Straight	Circle	Sides	Angle	Quadrilater	Regular	Angle
		Twisted	Sides	square	Edges	Right angle	al	Irregular	Net
		Pointy	Circle	Oblong	Lines of	(rectangle)	Isosceles	Polygon	Radius
		Wiggly	corners	Rectangle	symmetry	Horizontal	Equilateral	Angle	Diameter
		Витору	edge	Triangle	Vertices	and vertical	Scalene	Diagonal	Circumferen
_		Sides	square	Cuboid	Faces	lines	Parallelogr	Angle sum	ce
Vocabulary		Corners	Oblong	Cube	Surfaces	Perpendicula	am	fact	At a point
la		Straight	Rectangle	Pyramid	Quadrilater	r and parallel	Rhombus	-	Vertically
m		Flat	Triangle	Sphere	al	lines	Trapezium		opposite
ak		Round	Cube	2D	Polygon	Symmetrical	Regular		
DC		Circle	Pyramid	3D	Prism	Non-	Irregular		
ž		<mark>Oblong</mark>	Sphere		Cuboid	symmetrical	Degree		
		Rectangle	cylinder		Cube	Acute	Acute		
		Triangle	repeat		cone	obtuse	Obtuse		
		Cube	pattern		Pyramid		Line of		
		Pyramid			Sphere		symmetry		
		cylinder					Classify		