Town End Junior School

National Curriculum 2014 and Ready to Progress Criteria

Strand: Geometry

Objectives in black are National Curriculum statutory requirements; objectives in blue are non-statutory ready to progress criteria.



Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Properties of shapes	Properties of shapes	Properties of shapes	Properties of shapes	Properties of shapes	Properties of shapes
Recognise and name common	Identify & describe the	Draw 2-D shapes and make 3-D	Compare and classify geometric	Identify 3-D shapes, including	Draw 2-D shapes using given
2-D and 3-D shapes, including: 2-	properties of 2-D shapes,	shapes using modelling	shapes, including quadrilaterals	cubes and other cuboids, from 2-	dimensions and angles.
D shapes (e.g. rectangles	including the number of sides &	materials; recognise 3-D shapes	and triangles, based on their	D representations.	
(including squares), circles and	symmetry in a vertical line.	in different orientations and	properties and sizes.		6G-1 Draw, compose, and
triangles) 3-D shapes (e.g.		describe them.		Know angles are measured in	decompose shapes according to
cuboids (including cubes),	Identify and describe the		4G-2 Identify regular polygons,	degrees: estimate and compare	given properties, including
pyramids and spheres).	properties of 3-D shapes,	Recognise that angles are a	including equilateral triangles and	acute, obtuse and reflex angles.	dimensions, angles and area,
1C 1 Becomise common 2D	including the number of edges, vertices and faces.	property of shape or a description of a turn.	squares, as those in which the side-lengths are equal and the	5G-1 Compare angles, estimate	and solve related problems.
1G-1 Recognise common 2D and 3D shapes presented in	vertices and races.	or a turn.	angles are equal. Find the	and measure angles in degrees	Recognise, describe and build
different orientations, and know	2G-1 Use precise language to	Identify right angles, recognise	perimeter of regular and irregular	(°) and draw angles of a given	simple 3-D shapes, including
that rectangles, triangles,	describe the properties of 2D and	that two right angles make a half-	polygons.	size.	making nets.
cuboids and pyramids are not	3D shapes, and compare shapes	turn, three make three quarters of	polygona.	3120.	making nets.
always similar to one another.	by reasoning about similarities	a turn and four a complete turn;	Identify acute and obtuse angles	Draw given angles, and	Compare and classify geometric
	and differences in properties.	identify whether angles are	and compare and order angles up	measure them in degrees (°).	shapes based on their properties
1G-2 Compose 2D and 3D		greater than or less than a right	to two right angles by size.	3 ()	and sizes and find unknown
shapes from smaller shapes to	Identify 2-D shapes on the	angle.		Identify: angles at a point and	angles in any triangles,
match an example, including	surface of 3-D shapes, e.g. a		 Identify lines of symmetry in 2-D 	one whole turn (total 360°);	quadrilaterals, and regular
manipulating shapes to place	circle on a cylinder & a triangle on	3G-1 Recognise right angles as	shapes presented in different	angles at a point on a straight line	polygons.
them in particular orientations.	a pyramid.	a property of shape or a	orientations.	and ½ a turn (total 180°); other	
		description of a turn, and identify		multiples of 90°.	•Illustrate and name parts of
	Compare and sort common 2-D	right angles in 2D shapes	Complete a simple symmetric	. I la a tha a mana antian a fina atam mia a	circles, including radius, diameter
	and 3-D shapes and everyday	presented in different	figure with respect to a specific line of symmetry.	Use the properties of rectangles to deduce related facts and find	and circumference and know that
	objects.	orientations.	line of symmetry.	missing lengths and angles.	the diameter is twice the radius.
		Identify horizontal and vertical	4G–3 Identify line symmetry in 2D	Thissing lengths and angles.	Recognise angles where they
		lines and pairs of perpendicular	shapes presented in different	Distinguish between regular and	meet at a point, are on a straight
		and parallel lines.	orientations. Reflect shapes in a	irregular polygons based on	line, or are vertically opposite,
		and paramet intest	line of symmetry and complete a	reasoning about equal sides and	and find missing angles.
		3G-2 Draw polygons by joining	symmetric figure or pattern with	angles.	and the same and grades
		marked points, and identify	respect to a specified line of		
		parallel and perpendicular sides.	symmetry.		

Position and direction	Position and direction	Posit	ion and direction	Position and direction	Position and direction
Describe position, directions and movements, including half, quarter and three -quarter turns.	Order and arrange combinations of mathematical objects in patterns. Use mathematical vocabulary to describe position, direction and movement, including distinguishing between rotation as a turn and in terms of right angles for quarter, half and three - quarter turns (clockwise and anti-clockwise), and movement in a straight line.	as coord quadrant. • Describe positions given unit up/down. • Plot spe sides to polygon. 4G -1 Dra by coord	positions on a 2-D grid inates in the first movements between as translations of a to the left/right and cified points and draw complete a given aw polygons, specified inates in the first and translate within the ant.	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). Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.