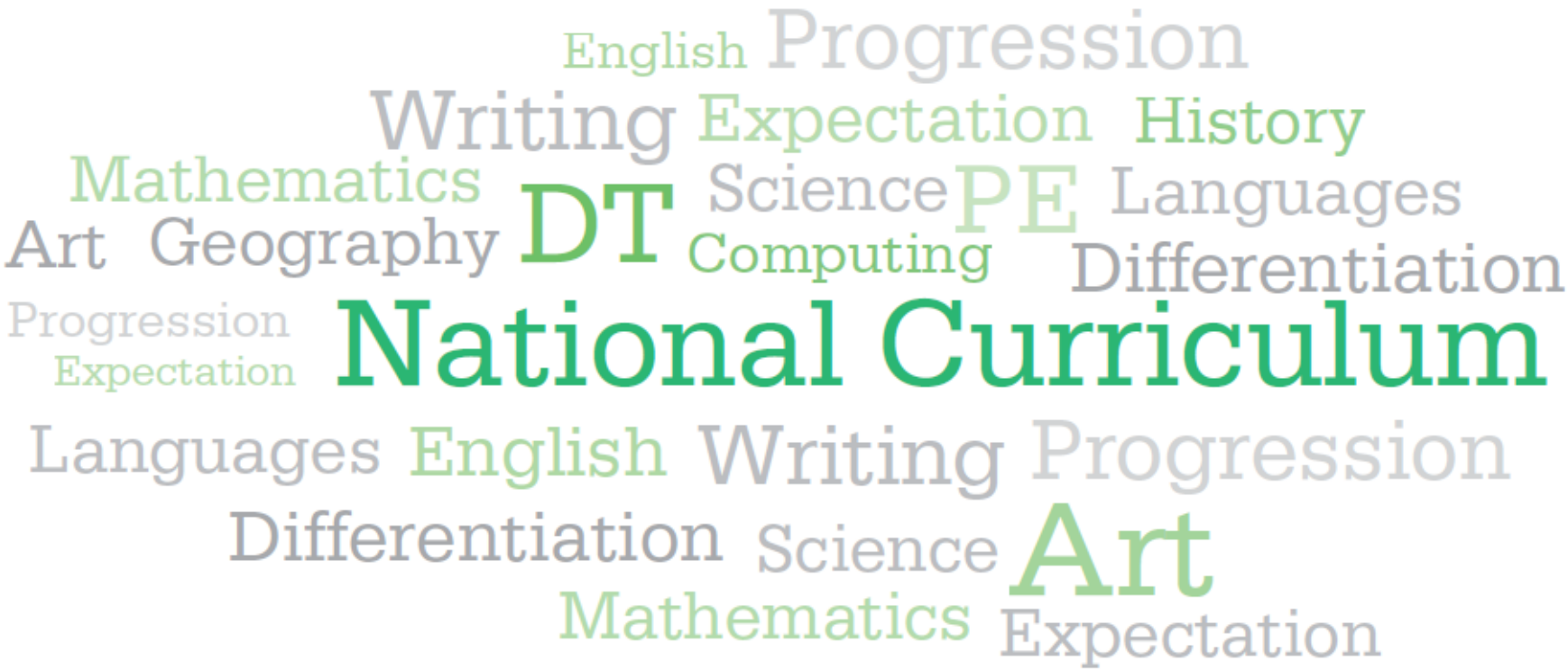
FOCUS MINIS

FOCUS EDUCATION



Progression in the new National Curriculum

Geometry: properties of shapes						
Rec/ELG	**Y1**	**Y2**	**Y3**	**Y4**	**Y5**	**Y6**
Explore the characteristics of everyday objects and shapes and use mathematical language to describe them. ELG	Recognise & name **common 2D & 3D shapes**, including: - 2D, e.g. rectangles (including squares) circles, triangles - 3D. e.g. cuboids (including cubes), pyramids, spheres.	Identify & describe the **properties of 2D shapes**, incl the number of sides & symmetry in a vertical line. Identify & describe the **properties of 3D shapes**, incl the number of edges, vertices & faces. Identify **2D shapes on the surface of 3D shapes**. **Compare & sort** common 2D & 3D shapes & everyday objects.	**Draw 2D shapes** & make 3D shapes using modelling materials; recognise 3D shapes in different orientations; & describe them.	**Compare & classify** geometric shapes, incl quadrilaterals and triangles, based on their properties & sizes. Identify lines of **symmetry** in 2D shapes presented in different orientations. Complete a simple **symmetric figure** with respect to a specific line of symmetry.	**Identify 3D shapes**, including cubes & cuboids, from 2D representations. Use the **properties of rectangles to** deduce related facts & find missing lengths & angles. Distinguish between **regular & irregular polygons** based on reasoning about equal sides & angles.	**Draw 2D shapes** using given dimensions & angles. **Recognise, describe & build simple 3D shapes**, incl making nets. **Compare & classify** geometric shapes based on their properties & sizes & find unknown angles in any triangles, quadrilaterals, & regular polygons.
			Recognise **angles** are 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 & four a complete turn; identify whether angles are greater than or less than a right angle.	Identify acute & obtuse **angles** & compare & order angles up to two right angles by size.	Know **angles** are measures in degrees; estimate & compare acute, obtuse & reflex angles. Identify: - Angles at a point on a straight line & ½ a turn (total 180°) - Angles at a point & one whole turn (total 360°) - Other multiples of 90° Draw given angles, & measure them in degrees.	Recognise **angles** where they meet at a point, are on a straight line, or are vertically opposite, & find missing angles.
			Identify **horizontal and vertical lines and pairs of perpendicular & parallel** lines.			
						Illustrate & name parts of **circles**, including radius, diameter & circumference & know that the diameter is twice the radius.