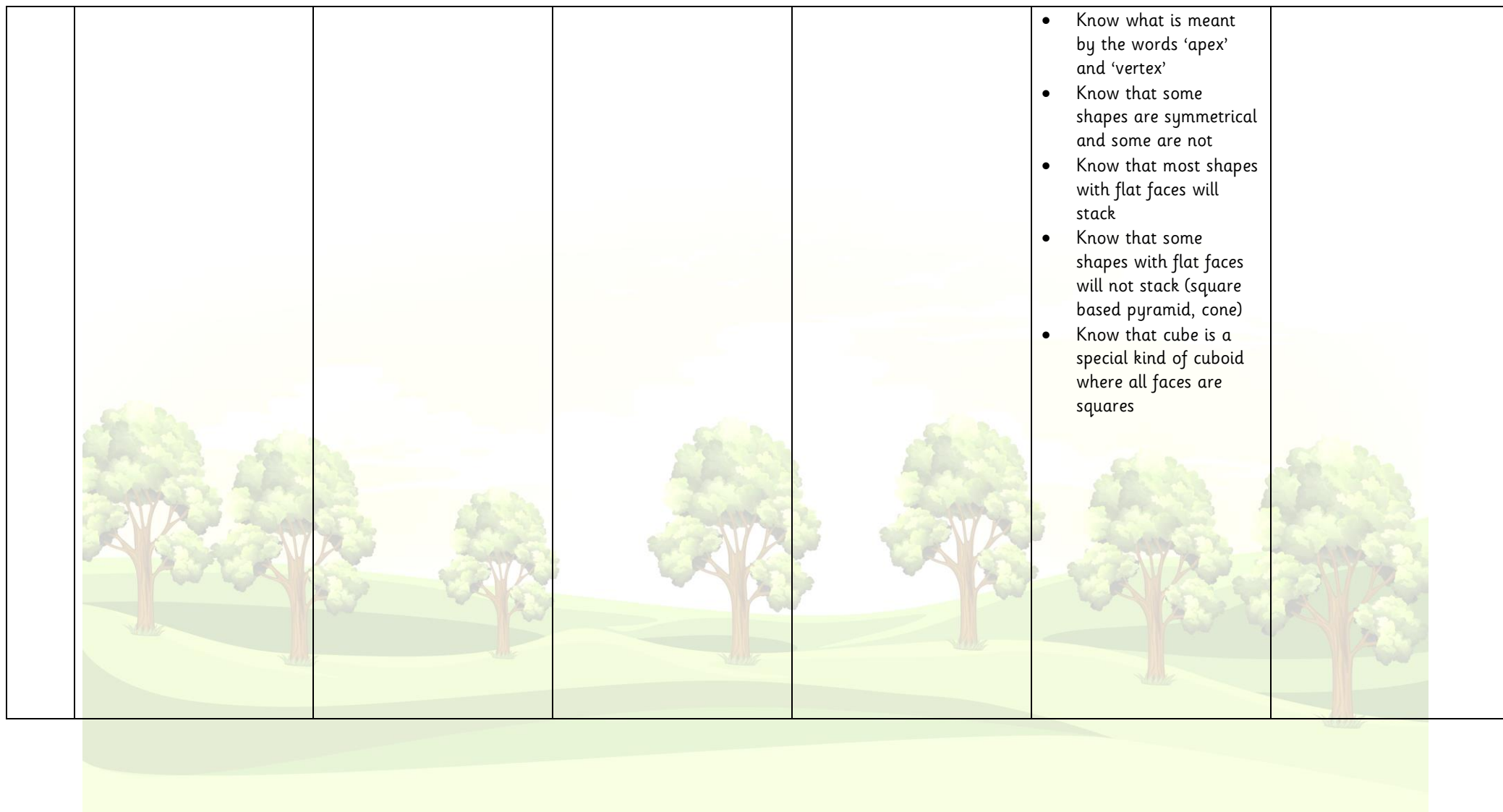


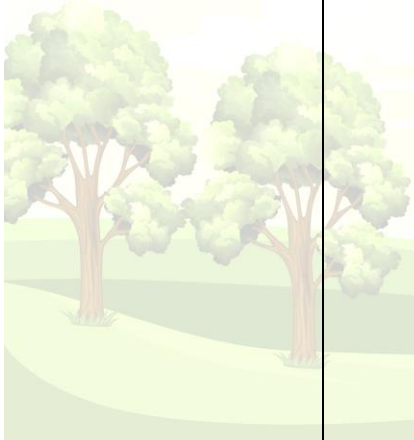
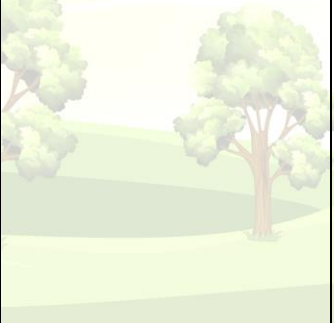
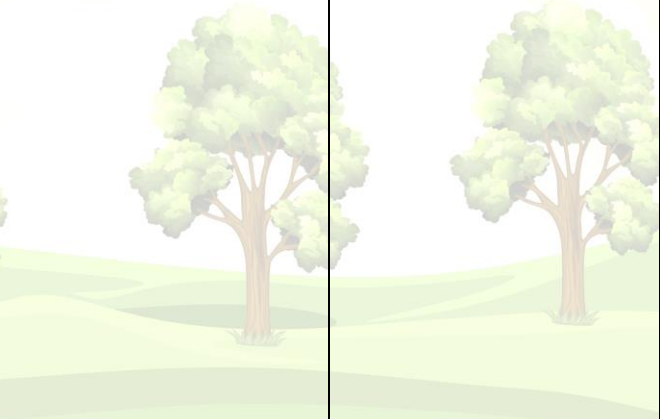
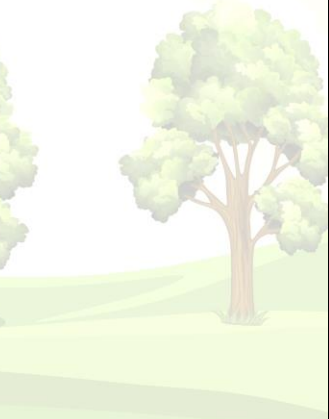

MATHS TREES OF KNOWLEDGE AND SKILLS PROGRESSION

KS1 - GEOMETRY (SHAPE, POSITION AND DIRECTION)-

	Year 1			Year 2		
	Autumn Term	Spring Term	Summer Term	Autumn Term	Spring Term	Summer Term
Knowledge	<ul style="list-style-type: none"> Know the names of 2D shapes: circle, triangle, square, rectangle, hexagon Know the properties of 2D shapes: flat, curved, straight, round, sides, vertices Know the names of 3D shapes: cylinder, cube, cuboid, pyramid, sphere, cone Know the properties of 3D shapes: edges, faces, vertices, curved faces/edges Know the difference between 2D (flat shapes) and 3D (solid shapes) 	<ul style="list-style-type: none"> Re-visit knowledge of the names of 2D shapes and their properties (see Autumn term) Know the difference between a square and a rectangle Re-visit knowledge of the names of 3D shapes and their properties (see Autumn term) Know what 'a line of symmetry' is 	<ul style="list-style-type: none"> Know language related to position: over, under, underneath, above, below, top, bottom, side on, in, outside, inside, around, in front, behind, front, back, before, after beside, next to, opposite, part, between, middle, edge, centre Know what is meant by 'a quarter turn', 'half turn' 	<ul style="list-style-type: none"> Revisit knowledge of the names and properties of 2D shapes through Flashback 4s Revisit knowledge of the names and properties of 3D shapes through Flashback 4s 	<ul style="list-style-type: none"> Re-visit and build on knowledge of the names of 2D shapes: circle, triangle, square, rectangle, hexagon, pentagon, octagon Re-visit and build on knowledge of the properties of 2D shapes: flat, curved, straight, round, sides, vertices, vertical, symmetrical Re-visit and build on knowledge of the names of 3D shapes: cylinder, cube, cuboid, pyramid, sphere, cone Re-visit and build on knowledge of the properties of 3D shapes: edges, faces, vertices, Know that an edge is where 2 faces meet or where a face and a curved surface meet Revisit knowledge of the difference between 2D (flat shapes) and 3D (solid shapes) 	<ul style="list-style-type: none"> Revisit knowledge of the names and properties of 2D shapes through Flashback 4s Revisit knowledge of the names and properties of 3D shapes through Flashback 4s



<p>Skills</p>	<ul style="list-style-type: none"> • Recognise 2D and 3D shapes • Count sides on 2D shapes • Count vertices on 2D shapes • Draw 2D shapes • Identify lines of symmetry • Sort 2D shapes • Make patterns with 2D shapes • Count faces on 3D shapes • Count edges on 3D shapes • Count vertices on 3D shapes • Sort 3D shapes • Make patterns with 2D shapes • Make patterns with 3D shapes • Explore and discuss shapes of real objects • Explore shapes outdoors and shapes in nature 	<ul style="list-style-type: none"> • Recognise, name and sort 2D shapes • Label 2D shapes • Recognise, name and sort 3D shapes • Label 3D shapes • Make patterns with 2D shapes • Make patterns with 3D shapes 	<ul style="list-style-type: none"> • Use mathematical vocabulary to describe position • Use mathematical vocabulary to describe direction • Use mathematical vocabulary to describe movement, including movement in a straight line • Identify and distinguish between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise). 	<ul style="list-style-type: none"> • Name and label 2D shapes • Name and label 3D shapes 	<ul style="list-style-type: none"> • Recognise and sort 2-D shapes including circle, square, triangle, rectangle, pentagon, hexagon and octagon using a range of different orientations • Sort 2D shapes in more than one way • Count sides on 2D shapes • Count vertices on 2D shapes • Draw 2D shapes accurately using dotted/squared paper and a ruler • Create 2D shapes accurately on geo-boards • Identify and draw vertical lines of symmetry • Make patterns with 2D shapes • Count faces on 3D shapes • Count edges on 3D shapes • Count vertices on 3D shapes • Sort 3D shapes in more than one way • Make patterns with 3D shapes and describe 	<ul style="list-style-type: none"> • Name and label 2D shapes • Name and label 3D shapes • Describe properties of 2D and 3D shapes, using vocabulary taught in Spring term
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					<p>the patterns they have created</p> <ul style="list-style-type: none">• Identify and visualise 3-D shapes from a 2-D representation	
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