

Curriculum End Points	Subject: Mathematics		
Theme / Area Covered	Shape 4		
	Age Related Targets – Year 7	Age Related Targets – Year 8	Age Related Targets – Year 9
Key Objectives / Learning Pathway Emerging	<p>Calculate the area of squares and rectangles</p> <p>Calculate the perimeter of squares and rectangles</p> <p>Calculate the area and perimeter of compound shapes made up of squares and rectangles.</p>	<p>Recognise that shapes with the same areas can have different perimeters</p> <p>Calculate the area of a parallelogram</p> <p>Calculate the area if a triangle</p> <p>Estimate the volume of cubes and cuboids</p> <p>Calculate the volume of cubes and cuboids</p> <p>Convert between metric units of area in simple cases</p> <p>Convert between metric units of volume in simple cases</p>	<p>Calculate perimeter of 2D shapes</p> <p>Use and apply the formula to calculate the area of triangles</p> <p>Use and apply the formula to calculate the area of trapezia</p> <p>Use and apply the formula to calculate the volume of cuboids</p> <p>Find the surface area of cubes and cuboids</p> <p>Know parts of a circle</p>
Key Objectives / Learning Pathway Developing	<p>Recognise that shapes with the same areas can have different perimeters</p> <p>Calculate the area of a parallelogram</p> <p>Calculate the area if a triangle</p> <p>Estimate the volume of cubes and cuboids</p> <p>Calculate the volume of cubes and cuboids</p> <p>Convert between metric units of area in simple cases</p> <p>Convert between metric units of volume in simple cases</p>	<p>Calculate perimeter of 2D shapes</p> <p>Use and apply the formula to calculate the area of triangles</p> <p>Use and apply the formula to calculate the area of trapezia</p> <p>Use and apply the formula to calculate the volume of cuboids</p> <p>Find the surface area of cubes and cuboids</p> <p>Know parts of a circle</p>	<p>Know circle definitions and properties, including centre, radius, chord, diameter, circumference</p> <p>Calculate the circumference of a circle when radius and diameter is given</p> <p>Calculate the perimeter of composite shapes that include sections of a circle</p> <p>Calculate the area of a circle when radius or diameter is given</p> <p>Calculate the area of composite shapes that include sections of a circle</p>
Key Objectives / Learning Pathway Mastering	<p>Calculate perimeter of 2D shapes</p> <p>Use and apply the formula to calculate the area of triangles</p> <p>Use and apply the formula to calculate the area of trapezia</p> <p>Use and apply the formula to calculate the volume of cuboids</p>	<p>Know circle definitions and properties, including centre, radius, chord, diameter, circumference</p> <p>Calculate the circumference of a circle when radius and diameter is given</p> <p>Calculate the perimeter of composite shapes that include sections of a circle</p>	<p>Calculate the volume of a prism</p> <p>Calculate the volume of a cylinder</p> <p>Compare lengths, areas and volumes using ratio notation</p> <p>Know circle definitions and properties, including: tangent, arc, sector and segment</p>

	<p>Find the surface area of cubes and cuboids</p> <p>Know parts of a circle</p>	<p>Calculate the area of a circle when radius or diameter is given</p> <p>Calculate the area of composite shapes that include sections of a circle</p>	
<p>Key Objectives / Learning Pathway Excelling</p>	<p>Know circle definitions and properties, including centre, radius, chord, diameter, circumference</p> <p>Calculate the circumference of a circle when radius and diameter is given</p> <p>Calculate the perimeter of composite shapes that include sections of a circle</p> <p>Calculate the area of a circle when radius or diameter is given</p> <p>Calculate the area of composite shapes that include sections of a circle</p>	<p>Calculate the volume of a prism</p> <p>Calculate the volume of a cylinder</p> <p>Compare lengths, areas and volumes using ratio notation</p> <p>Know circle definitions and properties, including: tangent, arc, sector and segment</p>	<p>Calculate the arc length of a sector, including calculating exactly with multiples of π</p> <p>Calculate the area of a sector, including calculating exactly with multiples of π</p> <p>Calculate the angle of a sector when the arc length and radius are known</p>