Curriculum Map	Subject: Mathematics		
Theme / Area Covered	Unit 13 Calculating Space		
	Age Related Targets – Year 7	Age Related Targets – Year 8	Age Related Targets – Year 9
Key Objectives / Learning Pathway Emerging	Calculate the area of squares and rectangles Calculate the perimeter of squares and rectangles Calculate the area and perimeter of compound shapes made up of squares and rectangles.	Recognise that shapes with the same areas can have different perimeters Calculate the area of a parallelogram Calculate the area if a triangle Estimate the volume of cubes and cuboids Calculate the volume of cubes and cuboids Convert between metric units of area in simple cases Convert between metric units of volume in simple cases	Calculate perimeter of 2D shapes Use and apply the formula to calculate the area of triangles Use and apply the formula to calculate the area of trapezia Use and apply the formula to calculate the volume of cuboids Find the surface area of cubes and cuboids Know parts of a circle
Key Objectives / Learning Pathway Developing	Recognise that shapes with the same areas can have different perimeters Calculate the area of a parallelogram Calculate the area if a triangle Estimate the volume of cubes and cuboids Calculate the volume of cubes and cuboids Convert between metric units of area in simple cases Convert between metric units of volume in simple cases	Calculate perimeter of 2D shapes Use and apply the formula to calculate the area of triangles Use and apply the formula to calculate the area of trapezia Use and apply the formula to calculate the volume of cuboids Find the surface area of cubes and cuboids Know parts of a circle	Know circle definitions and properties, including centre, radius, chord, diameter, circumference Calculate the circumference of a circle when radius and diameter is given Calculate the perimeter of composite shapes that include sections of a circle Calculate the area of a circle when radius or diameter is given Calculate the area of composite shapes that include sections of a circle
Key Objectives / Learning Pathway Securing	Calculate perimeter of 2D shapes Use and apply the formula to calculate the area of triangles Use and apply the formula to calculate the area of trapezia Use and apply the formula to calculate the volume of cuboids Find the surface area of cubes and cuboids Know parts of a circle	Know circle definitions and properties, including centre, radius, chord, diameter, circumference Calculate the circumference of a circle when radius and diameter is given Calculate the perimeter of composite shapes that include sections of a circle Calculate the area of a circle when radius or diameter is given Calculate the area of composite shapes that include sections of a circle	Calculate the volume of a prism Calculate the volume of a cylinder Compare lengths, areas and volumes using ratio notation Know circle definitions and properties, including: tangent, arc, sector and segment
Key Objectives / Learning Pathway Excelling	Know circle definitions and properties, including centre, radius, chord, diameter, circumference Calculate the circumference of a circle when	Calculate the volume of a prism Calculate the volume of a cylinder Compare lengths, areas and volumes using	Calculate the arc length of a sector, including calculating exactly with multiples of π Calculate the area of a sector, including

	radius and diameter is given Calculate the perimeter of composite shapes that include sections of a circle Calculate the area of a circle when radius or diameter is given Calculate the area of composite shapes that include sections of a circle	ratio notation Know circle definitions and properties, including: tangent, arc, sector and segment	calculating exactly with multiples of π Calculate the angle of a sector when the arc length and radius are known