

NAME		TEACHER				
My GCSE Target Grade is		End of Cycle Teacher Assessment Please circle				
		SAE	AE	E	BE	SBE
End of unit assessment type		Your end of topic assessment will be a written exam.				

YEAR 9H (DELTA/THETA) CYCLE 6: CIRCLES & TRANSFORMATIONS

	Knowledge	Prior knowledge	End of topic
Circles	Circle Calculations – I can calculate the area & circumference of a circle and use to solve problems (including in terms of π)		
	Sectors of Circles – I can calculate the perimeter and area of semicircles and quarter circles and calculate arc lengths , angles and areas of sectors		
	Cylinders & Spheres – I can calculate the volume and surface area of a cylinder and sphere and apply to problem solving questions		
	Pyramids & Cones – I can calculate the volume and surface area of pyramids and cones and apply to problem solving questions		
Transformations	Reflection – I can reflect a 2D shape on a 4-quadrant axis including in the line $y=x$ and describe a reflection		
	Rotation – I can rotate a 2D shape on a 4-quadrant axis using a centre of rotation and describe a rotation fully		
	Enlargement 1 – I can enlarge shapes by a positive integer scale factor about the origin and a given centre of enlargement		
	Enlargement 2 – I can enlarge shapes by a fractional and negative scale factor about a centre of enlargement		
	Translation – I can translate a shape using a column vector and describe a translation		
	Transformations Combined - I can carry out and describe combinations of transformations		
Shape	3D Solids – Draw plans and elevations of 3D solids (using isometric and squared grids)		
	Bearings – I can solve problems involving bearings (and apply to basic trigonometry)		
	Constructions – I can accurately construct triangles using a rule and compasses (SSS, ASA)		
	Constructions 2 – I can construct a perpendicular bisector and angle bisector		
	Loci – I can draw a locus of points and use loci to solve problems		

LEARNING TOOLS

KEY CONCEPTS	Column Vector	Used to describe a translation on a co-ordinate axis			
	π (pi)	π (pi) is the relationship between the _____ and _____ of a circle			
KEY QUESTIONS	Area of a Circle =		Circumference of a Circle =		
KEY EQUATION		Volume of a Sphere = $\frac{4}{3}\pi r^3$			