

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 10 HIGHER	CYCLE 6: CIRCLE THEOREMS
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	Knowledge	Prior knowledge	End of topic
Circle Theorems	Radii and Chords – I can solve problems involving chords and radii and find the centre of a circle using a ruler and compass		
	Tangents – I understand and can use the facts about tangents at a point and from a point & can give reasons for angle and length calculations involving tangents (tangent meets radius at 90°)		
	Angles in Circles 1 – I understand and can use facts about angles subtended at the centre and circumference of circles and use facts about the angle in semicircle being a right angle		
	Angles in Circles 2 – I understand and can use facts about angles subtended at the circumference of circle and use facts about cyclic quadrilaterals		
	Alternate Segment Theorem – I can use the alternate segment theorem when solving problems		
	Problem Solving – I can solve angle problems using circle theorems and give reasons using mathematical language		
	Circle Theorem Proofs – I can prove key circle theorems using known angle facts		
Equation of Line / Circle	Equation of a Line – I understand and can use $y = mx + c$ and $ax + by = c$ to represent the equation of a straight line and can identify the x and y intercepts		
	Gradient – I can find the gradient of a line between 2 points, with and without a graph		
	Line Segments - I can find the co-ordinates of the midpoint of a line segment and find the gradient and length of a line segment (using Pythagoras)		
	Parallel & Perpendicular Lines – I can find the equation of parallel and perpendicular lines, given the gradient and a point, 2 points and from a diagram		
	Equation of a Circle – I understand that $x^2 + y^2 = r^2$ is the equation of a circle with centre at the origin		
	Equation of a Circle 2 – I can find the equation of the tangent to a circle at a given point		

LEARNING TOOLS

KEY CONCEPTS	Y=MX+C	The equation of a line. M represents _____ and C represents _____			
	Theorem	A statement that has been proven true on the basis of other established statements.			
KEY WORDS	Origin (0,0)	Parallel	Subtended	Perpendicular	Tangent
KEY EQUATION		$x^2 + y^2 = r^2$			