

Curriculum Map: KS4 – Working Above Year 2

	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
Groups Taught	11GA1, 11GA2, 11PA1, 11PA2					
Topic	Circle geometry Circle theorems	Algebraic fractions Functions Algebraic Proof	REVISION			
Intent	<p>Ensure students are resilient learners with the ability to persevere through challenges.</p> <p>Foster a learning environment built of respect of one another where students are courteous and kind to each other and students are encouraged to ask questions and to develop a curiosity for the subject which motivates them to develop their learning further outside the classroom.</p> <p>Enable students to become deep thinkers who can competently and confidently problem solve and reason.</p>					
Key Knowledge	Know the equation of a circle; know all circle theorems and the names of all parts of circles. Know how to find the equations of lines from two points.	Know what composite functions and inverse functions are. Know how to write odd, even, consecutive, square and cube numbers algebraically. Fluent in fraction arithmetic.	All knowledge now to be revised across the syllabus at appropriate tiers.			
Key Skills	Can apply the circle theorems and solve problems involving a variety of theorems. Can find the equation of both a normal and a tangent on a circle. Can solve quadratic simultaneous equations.	Can factorise and simplify algebraic fractions. Can substitute into and solve a variety of functions, including inverse and composite. Can write algebraic proof using correct notation and logical steps.	Using and applying skills particularly In exam questions.			
Key Vocabulary	Gradient, parallel, perpendicular, tangent, normal, radius, diameter, circumference, simultaneous	Proof, composite, inverse, function, factorise, reciprocal, solve, substitute	Revision.			
Key Reading	Hegarty Maths Individual Mathematics exercise books Microsoft Teams work					
End Point	Fluency demonstrated in lessons, applying knowledge and understanding in problem solving exam style questions.					
Form of Assessment	End of unit assessment including section for prior learning.					
Enrichment opportunities	UKMT Maths challenge UKMT team Maths challenge					


AMBITION

RESILIENCE

COURTESY

KINDNESS