Maths- Y11H

MAGHULL HIGH SCHOOL – CURRICULUM MAP



HALF TERM 2 NOV-DEC	Week 1 w/b 4 th Nov	Week 2 w/b 11 th Nov	Week 3 w/b 18 th Nov	Week 4 w/b 25 th Nov	Week 5 w/b 2 nd Dec	Week 6 w/b 9 th Dec	Week 7 w/b 16 th Dec
TOPIC (S)	Trigonometry recap and extension	Trigonometry recap and extension	Further equations and their graphs	Further equations and their graphs	Equation of a circle	Mocks	Mocks
Knowledge & Skills development	• Apply it to fi • Know and u • $\sin \theta = \frac{op}{hyp}$ • Apply them • Know the ex- • Know the ex- • Know the ex- • Apply angle including Py • Compare lease • Solve linear • Solve linear • Solve quadratic for • find approxi • recognise, s • identify and • deduce root • deduce turn • translate sin • derive an ex- • recognise at	rmula for Pythagoras ind lengths in right an se the trigonometric r <u>posite</u> , $\cos \theta = \frac{a\alpha}{hyp}$ to find lengths in righ cact values of sin θ an cact value of tan θ for facts, triangle congru- thagoras Theorem, ar ngths using ratio nota ind their graphs equations in one unkn atic equations (includion mula mate solutions using ketch and interpret gri interpret roots, inter- ts algebraically ning points by complete nple situations or pro- quation, solve the equ	gled triangles and, where the second	nere possible, general <u>posite</u> <u>jacent</u> , where possible, gen , 45 ⁰ , 60 ⁰ and 90 ⁰ roperties of quadrilate to obtain simple proo gonometric ratios cluding those with the rearrangement) algel nd quadratic ns and quadratic funct as expressions or formu- te solution at the origin	eral triangles in two erals to conjecture a ofs e unknown on both braically by: factoris ctions cions graphically	and three dimension and derive results abo sides of the equation	al figures out angles and sides

Assessment / Feedback	Topic assessments	Self-assessment sheets	Homework	Formative teacher assessment - verbal	Retrieval practice				
Opportunities		Sheets							
Cultural Capital	Use of algebra to solve real life problems involving widely used quadratic graphs								
	Application of trigonometry in real life problems including construction								
	Discussion of the use of growth and decay in real life including science (diseases) finance								
SMSC / Promoting	Willingness to participate in, and respond to mathematical opportunities. Use of social skills in different contexts, including working and								
British Values	socialising with pupils from different religious, ethnic and socio-economic backgrounds.								
(Democracy, Liberty, Rule of Law, Tolerance & Respect)									
Reading	Mathematics in the Simpsons								
opportunities	What's the point in Maths								
	Humble pi								
Key Vocabulary	Trigonometry, Pythagoras, hypotenuse, opposite, adjacent, theta, ratio, sine, cosine, tangent, solve, equations, linear, quadratic, sketch, function, intercept, roots, turning point, tangent, radius, parallel, perpendicular,								
Digital Literacy	Microsoft Excel, DESMOS, Geogebra								
Careers	Architecture, Team Leader, Construction, Chef, Medicine, Engineer, Science, Finance.								