Maths- Y9

MAGHULL HIGH SCHOOL – CURRICULUM MAP



HALF TERM 6 June-July	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	
TOPIC (S)	Pythagoras'	Pythagoras'	EOY Assessment	Standard Form	Standard Form	2D	
	Theorem and	Theorem and				representations	
	Introduction to	Introduction to				of 3D shapes	
	Trigonometry	Trigonometry					
Knowledge & Skills	Pythagoras' Theorem and Introduction to Trigonometry						
development	know the formulae for:						
	• Pythagoras' theorem, $a^2 + b^2 = c^2$						
	 the trigonometric ratios, sinθ=opposite/hypotenuse, cosθ=adjacent/hypotenuse and tanθ=opposite/adjacent apply them to find apples and lengths in right appled triangles in two dimensional figures. 						
	 apply them to find angles and lengths in right-angled triangles in two dimensional figures 						
	Standard form understand and use place value (eg when working with very large or very small numbers) calculate with and interpret standard form A × 10n, where 1 ≤ A < 10 and n is an integer with and without a calculator interpret calculator displays <u>2D representations of 3D shapes</u> construct and interpret plans and elevations of 3D shapes						
Assessment / Feedback Opportunities	Topic assessments	Self-assessment	Homework (written and online)	Formative teacher	assessment - verbal	Retrieval practice	
Cultural Capital	Application of standard form in science industry						1
•		ormations in gaming p	•				
	Application of plans	and elevations in arch	itecture and building				
SMSC / Promoting	Willingness to participate in, and respond to mathematical opportunities. Use of social skills in different contexts, including working and socialising						
British Values	with pupils from different religious, ethnic and socio-economic backgrounds.						
(Democracy, Liberty, Rule of Law, Tolerance & Respect)							

Reading opportunities	Murderous Maths, Marvellous Maths, Launch a rocket into space		
Key Vocabulary	Pythagoras, trigonometry, hypotenuse, opposite, adjacent, theta, sine, cosine, tangent, standard form, index, power, plan, elevation, view.		
Digital Literacy	Desmos, Geogebra, DFM, Mathspad, MSteams		
Careers	Business, Finance, Architect, Statistician, Building, Engineer, Researcher, Design, Engineering, Scientist, Gaming programmer.		