Maths- Y11F

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)	Pythagoras' Theorem & Basic Trigonometry	Area & Volume	Introduction to Algebra	Perimeter & Scale/Averages	Mode/Charts & Graphs	Mocks	Mocks		
Knowledge & Skills development	 Pythagoras' Theorem and Basic Trigonometry To become familiar with Pythagoras' Theorem being able to find missing lengths in right angled triangles; being able to prove a triangle contains a right angle. To use trigonometry to find lengths and angles in right angled triangles. Area & Volume To become familiar with area calculations in simple and compound shapes and with various different polygons; and to identify the link with surface area. To determine a range of volume calculations. To experience constructions using compass and protractor. Introduction to Algebra To become familiar with algebraic notation and writing algebraic expressions. To solve algebraic equations. To understand the index laws. Perimeter & Scale/Averages To be able to calculate the perimeter of simple and compound shapes, including those with part circles. To be able to work with map scale and use scale drawings to solve problems. To be able to differentiate between mean, median and mode. Mode/Charts & Graphs To become familiar with and average. To work effectively with a range of charts and graphs. 								

Assessment /	Topic assessments	Self-assessment	Homework	Formative teacher	Retrieval practice					
Feedback		sheets		assessment -						
Opportunities				verbal						
Cultural Capital	Use of Volume to solve real life problems involving capacity									
	Application of trigonometry in real life problems including construction									
	Discussion of the use of algebra and graphs in real life including science and finance									
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	Mathematics in the Simpsons									
opportunities	What's the point of Maths									
	Humble Pi									
Key Vocabulary	Trigonometry, Pythagoras, hypotenuse, opposite, adjacent, tangent, sine, cosine, ratio, volume, unit, capacity, similar, cross-section.									
Digital Literacy	Microsoft Excel, DESMOS, Geogebra									
Careers	Architecture, Team Leader, Construction, Chef, Medicine, Engineer.									