



Maths- Y11H

MAGHULL HIGH SCHOOL – CURRICULUM MAP

HALF TERM 3 JAN-FEB	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	
TOPIC (S)	Mock Review	Growth and Decay	Numerical Methods	Sine and Cosine Rule	Sine and Cosine Rule	Exam skills practice interleaved throughout the HT	
Knowledge & Skills development	<p><u>Growth and Decay</u></p> <ul style="list-style-type: none"> set up, solve and interpret the answers in growth and decay problems, including compound interest work with general iterative processes <p><u>Numerical Methods</u></p> <ul style="list-style-type: none"> find approximate solutions to equations numerically using iteration find approximate solutions to equations numerically using iteration, including the use of suffix notations in recursive formulae <p><u>Sine and Cosine Rule</u></p> <ul style="list-style-type: none"> know and apply the sine rule, $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$ to find unknown lengths and angles know and apply the cosine rule, $a^2 = b^2 + c^2 - 2bc \cos A$ to find unknown lengths and angles know and apply, $Area = \frac{1}{2} ab \sin C$ to calculate the area, sides or angles of any triangle 						

Assessment / Feedback Opportunities	Topic assessments	Self-assessment sheets	Homework	Formative teacher assessment - verbal	Retrieval practice	
Cultural Capital	Application of trigonometry in real life problems including construction and navigation (Bearings) Solve inequalities to maximise profit and minimise loss in business situations (Linear Programming)					
SMSC / Promoting British Values (Democracy, Liberty, Rule of Law, Tolerance & Respect)	Willingness to participate in, and respond to mathematical opportunities. Use of social skills in different contexts, including working and socialising with pupils from different religious, ethnic and socio-economic backgrounds.					
Reading opportunities	Mathematics in the Simpsons What's the point in Maths? Humble pi					
Key Vocabulary	Percentage, rate, compound, appreciate, depreciate, iteration, divergent, convergent, recursive, trigonometry, pythagoras, hypotenuse, opposite, adjacent, theta, ratio, sine, cosine.					
Digital Literacy	DESMOS, Geogebra					
Careers	Architecture, Team Leader, Construction, Medicine, Engineer, Science, Finance.					