Maths- Y10H

MAGHULL HIGH SCHOOL – CURRICULUM MAP

HALF TERM 6 June-July	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	
TOPIC (S)	**Real Life Graphs**	**Sketching graphs**	**Revision and Assessment**	**Revision and Assessment**	**Mocks**	**Exam Review and DIRT**	
Knowledge & Skills development	**Real Life Graphs** plot and interpret graphs in real contexts, including: • reciprocal graphs • exponential graphs • graphs of non-standard functions find approximate solutions to problems such as simple kinematic problems involving distance, speed and acceleration: interpret the gradient of a straight-line graph as a rate of change **Sketching Graphs** recognise, sketch and interpret graphs of: • linear functions and quadratic functions • simple cubic functions and the reciprocal function $y = 1/x$ with $x \neq 0$ Including using the symmetry of functions						
Assessment / Feedback Opportunities	Topic assessments	Self-assessment sheets	Homework (written and online)	Formative teacher assessment - verbal	Retrieval practice		
Cultural Capital	Graphs of real life situations Graphs to model situations Linear programming to maximise profit and minimise loss						
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	What's the point of maths? Murderous Maths, Marvellous Maths, Launch a rocket into space, Humble Pi.						
Key Vocabulary	Graph, linear, quadratic, cubic, reciprocal, intercept, gradient, rate of change, slope, stationary, acceleration, roots, turning points, asymptotes.						
Digital Literacy	Desmos, DFM, MSTeams, Geogbra.						
Careers	Engineering, Business, Architecture, Building, Gaming, Banking, Economist, Statistician, Budgeting, Market Research.						