Maths- Y11F

MAGHULL HIGH SCHOOL – CURRICULUM MAP

HALF TERM 4 FEB-MAR	Week 1	Week 2	Week 3	Week 4	Week 5		
TOPIC (S)	**Sketching Graphs**	**Sketching Graphs** **Solving Quadratic Equations**	**Solving Quadratic Equations**	**Solving Quadratic Equations** **Quadratic Graphs**	**Quadratic Graphs**		
Knowledge & Skills development	**<u>Sketching Graphs</u>** Recognise, sketch and interpret graphs of: • linear functions and quadratic functions • simple cubic functions and the reciprocal function $y = 1/x$ with $x \neq 0$ **<u>Solving Quadratic Equations</u>** • solve quadratic equations algebraically by factorising • find approximate solutions using a graph **<u>Quadratic Graphs</u>** • recognise, sketch and interpret graphs of quadratic functions • identify and interpret roots, intercepts and turning points of quadratic functions graphically • deduce roots algebraically						

Assessment / Feedback Opportunities	Topic assessments	Self-assessment sheets	Homework	Formative teacher assessment - verbal	Retrieval practice	
Cultural Capital	Exponential growth of diseases.					
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 of Maths?					
Key Vocabulary	Graph, Sketch, Plot, Axis, Intercept, Shape, Linear, Quadratic, Reciprocal, Cubic, Exponential, Solutions, Equation, Function, Roots, Turning Points					
Digital Literacy	DESMOS, DFM, Onmaths, MSTeams					
Careers	Medicine, Engineer, Banking and Investment, Economist, Astronomers.					