



MAGHULL HIGH SCHOOL – CURRICULUM MAP Year 11 Half Term 1

Unit:	Week 1 -2	Week 3-4	Week 5-6	
LESSON TOPIC QUESTION(S)	Objective:		Objective:	
	FOUNDATION	HIGHER	FOUNDATION	HIGHER
	Equations of lines parallel to the axis	Equations of lines parallel to the axis	Equation of a straight-line graph given two points	Equation of a straight-line graph given two points
	Plot straight line graphs	Plot straight line graphs	Determine whether a point is on a line	Recognise when straight lines are perpendicular
	Interpret $y = mx + c$	Interpret $y = mx + c$	Solve linear simultaneous equations graphically	Find the equations of perpendicular lines
	Find the equation of a straight line from a graph (1)	Find the equation of a straight line from a graph (1)	Plot and read from quadratic graphs	Plot and read from quadratic graphs
	Equation of a straight-line graph given one point and gradient	Equation of a straight-line graph given one point and gradient	Plot and read from cubic graphs	Recognise graph shapes
	Formative Assessment	Formative Assessment	Formative Assessment	Formative Assessment
	Therapy	Therapy	Therapy	Therapy
	Knowledge & Skills development	Develop fluency in interpreting and constructing linear, quadratic, cubic, reciprocal, and exponential graphs • Strengthen conceptual understanding of gradient, intercepts, and graph-based equation solving • Apply coordinate geometry techniques to real-life graphs and conversion contexts • Extend graphical reasoning to identify roots, intersections, and transformations • Deepen understanding of perpendicular lines, midpoint, and equations of lines given coordinates		
Assessment / Feedback Opportunities	• Regular hinge questions and whiteboard tasks during graph sketching and interpretation • Mid-topic formative assessments focusing on graph plotting and equation derivation • Peer/self-assessment using mark schemes and modelled graph interpretation examples • End-of-unit summative assessments covering graphical reasoning and algebraic connections • Therapy and consolidation sessions following each formative or summative task			
Key Vocabulary	<i>Gradient, Intercept, Equation, Linear, Quadratic, Cubic, Reciprocal, Exponential, Midpoint, Perpendicular, Parallel, Coordinate, Root, Simultaneous, Conversion graph, Real-life graph</i>			

Literacy/Reading opportunities	Deconstruction of worded graph-based problems • Use of sentence starters to support explanation of graphical reasoning • Reading comprehension tasks involving real-life contexts such as speed-time and conversion graphs • Peer discussion and vocabulary quizzes to reinforce terminology
Cross Curricular Themes	• Physics – Application of motion, speed/time graphs, and graphical modelling • Geography – Use of coordinate systems and interpretation of mapped data • Business Studies – Interpreting and creating graphs from financial and data contexts • Computing – Logical reasoning and algorithms linked to coordinate mapping and geometry
Personal Development (Including British Values, RSE, Citizenship)	Reinforce resilience when tackling multi-step graph problems and simultaneous equations • Promote independent thinking and logical communication when justifying graph work • Encourage respectful discussion during graph comparisons and peer feedback • Highlight fairness and reliability in data interpretation for decision-making • Enable understanding of how graphical models apply in everyday decision making
Career Opportunities	Fundamental knowledge for careers in data science, architecture, surveying, and software development • Applications in finance, healthcare analytics, and engineering where data modelling and interpretation are essential • Supports numeracy and analytical thinking in public service and education roles