

Maths- Y9

MAGHULL HIGH SCHOOL – CURRICULUM MAP



HALF TERM 2 NOV - DEC	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
TOPIC (S)	Rounding	Rounding	Sequences	Sequences Coordinates and Linear Graphs	Coordinates and Linear Graphs	Angles, Scale Diagrams and Bearings	Angles, Scale Diagrams and Bearings
Knowledge & Skills development	<p>Rounding round numbers and measures to an appropriate degree of accuracy eg:</p> <ul style="list-style-type: none"> to a specified number of decimal places to a specified number of significant figures <p>use inequality notation to specify simple error intervals due to truncation or rounding apply and interpret limits of accuracy including upper and lower bounds</p> <p>Sequences generate terms of a sequence from either a term-to-term or a position-to-term rule recognise and use:</p> <ul style="list-style-type: none"> sequences of triangular, square and cube numbers simple arithmetic progressions Fibonacci-type sequences quadratic sequences simple geometric progressions (r^n where n is an integer and r is a rational number > 0) other sequences <p>deduce expressions to calculate the nth term of: linear sequences and quadratic sequences</p> <p>Coordinates and Linear Graphs</p> <ul style="list-style-type: none"> work with coordinates in all four quadrants solve geometrical problems on coordinate axes plot graphs of equations that correspond to straight-line graphs in the coordinate plane use the form $y = mx + c$ to identify parallel and perpendicular lines find the equation of the line through two given points, or through one point with a given gradient identify and interpret gradients and intercepts of linear functions graphically and algebraically <p>Angles, Scale Diagrams and Bearings</p> <p>use conventional terms and notations:</p> <ul style="list-style-type: none"> points, lines, vertices, edges, planes parallel lines, perpendicular lines right angles, polygons, regular polygons polygons with reflection and/or rotation symmetries <p>use the standard conventions for labelling and referring to the sides and angles of triangles draw diagrams from written description apply the properties of:</p> <ul style="list-style-type: none"> angles at a point angles at a point on a straight line vertically opposite angles <p>understand and use alternate and corresponding angles on parallel lines Use scale factors, scale diagrams and maps Measure line segments and angles in geometric figures Interpret maps, scale drawings, use of bearings</p>						

Assessment / Feedback Opportunities	Topic assessments	Self-assessment	Homework (written and online)	Formative teacher assessment - verbal	Retrieval practice	
Cultural Capital	Fibonacci sequence and the Golden Ratio Real life graphs- phone contracts (budgeting)					
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	Murderous Maths					
Key Vocabulary	Round, significant figures, estimate, approximate, accuracy, bounds, limits, error interval, truncate, sequence, linear, quadratic, Fibonacci, arithmetic, geometric, nth term, coordinate, quadrant, plot, gradient, intercept, equation, parallel, perpendicular, angle, bearing, corresponding, alternate, co-interior, vertically opposite.					
Digital Literacy	Desmos					
Careers	Business, Finance, Architect, Building, Engineer.					