

Maths- Y9

MAGHULL HIGH SCHOOL – CURRICULUM MAP



HALF TERM 3 JAN-FEB	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	
TOPIC (S)	Scale Diagrams and Bearings	Scale Diagrams and Bearings	Collecting and Representing Data	Collecting and Representing Data	Scatter Graphs Basic Percentages	Basic Percentages	
Knowledge & Skills development	<p><u>Scale Diagrams and Bearings</u></p> <ul style="list-style-type: none"> Use scale factors, scale diagrams and maps Measure line segments and angles in geometric figures Interpret maps, scale drawings, use of bearings <p><u>Collecting and Representing Data</u></p> <ul style="list-style-type: none"> interpret and construct tables, charts and diagrams, including, for categorical data: <ul style="list-style-type: none"> frequency tables bar charts pie charts pictograms vertical line charts for ungrouped discrete numerical data tables and line graphs for time series data know their appropriate use interpret, analyse and compare the distributions of data sets from univariate empirical distributions through appropriate graphical representation involving discrete, continuous and grouped data, including boxplots <p><u>Scatter Graphs</u></p> <ul style="list-style-type: none"> use and interpret scatter graphs of bivariate data recognise correlation and know that it does not indicate causation draw estimated lines of best fit make predictions interpolate and extrapolate apparent trends whilst knowing the dangers of so doing <p><u>Basic Percentages</u></p> <ul style="list-style-type: none"> define percentage as 'number of parts per hundred' interpret percentages and percentage changes as a fraction or a decimal, and interpret these multiplicatively express one quantity as a percentage of another compare two quantities using percentages work with percentages greater than 100% interpret fractions and percentages as operators 						
Assessment / Feedback Opportunities	Topic assessments	Self-assessment	Homework (written and online)	Formative teacher assessment - verbal	Retrieval practice		

Cultural Capital	Real life data for graphs Understanding of correlation and causation in real life situations Supermarket maths errors for understanding.
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, Marvellous Maths, Launch a rocket into space
Key Vocabulary	Bearing, corresponding, alternate, co-interior, vertically opposite, scale, map, ratio, data, continuous, discrete, categorical, frequency, chart, diagram, grouped-data, correlation, causation, interpolation, extrapolation, line-of-best-fit, percentage, decimal, percentage, multiplier, increase, decrease.
Digital Literacy	Desmos, Geogebra, Excel.
Careers	Business, Finance, Architect, Building, Engineer, Researcher, Retail.