

Maths- Y11F

MAGHULL HIGH SCHOOL – CURRICULUM MAP



HALF TERM 1 SEPT - OCT	Week 1 w/b 2 nd Sept	Week 2 w/b 9 th Sept	Week 3 w/b 16 th Sept	Week 4 w/b 23 rd Sept	Week 5 w/b 30 th Sept	Week 6 w/b 7 th Oct	Week 7 w/b 14 th Oct	Week 8 w/b 21 st Oct
TOPIC (S)	Introduction to Number	Fractions, Decimals & Percentages	Ratio: Estimation with rounding	Conversions & exchange rates/negative numbers	nth term & prime factorisation	Angle rules/triangles/interior & exterior angles	Polygons/2D & 3D shapes/symmetry & circles	Consolidation 1
Knowledge & Skills development	Introduction to Number <ul style="list-style-type: none"> Methods of calculation (addition, subtraction, long division and long multiplication) including with decimals 							
	Fractions, Decimals & Percentages <ul style="list-style-type: none"> To become familiar with the connections between fractions, decimals and percentages. To be able to manipulate each form of number fluently using equivalencies and recognising they are all the same quantity of an amount. To work with fractions, decimals and percentages as individual skill areas. 							
Knowledge & Skills development	Ratio: Estimation with rounding <ul style="list-style-type: none"> To become familiar with equivalent ratios; dividing ratios into given amounts; work with ratios in the context of comparisons, concentrations, scaling and recipes. To work with rounding to given decimal places and significant figures. To use approximation as a way of estimating outcomes and estimation as a means of checking results. 							
	Conversions & exchange rates/negative numbers <ul style="list-style-type: none"> To become familiar with equivalent ratios; dividing ratios into given amounts; work with ratios in the context of comparisons, concentrations, scaling and recipes. To work with rounding to given decimal places and significant figures. To use approximation as a way of estimating outcomes and estimation as a means of checking results. 							
Knowledge & Skills development	nth term & prime factorisation <ul style="list-style-type: none"> To become familiar with prime numbers and prime number decomposition. To work with sequences and find the nth term of a series. 							

	<p>Angle rules/triangles/interior & exterior angles</p> <ul style="list-style-type: none"> To undertake a diagnostic assessment of geometry skills and identify first targets. To clarify angles and triangle rules. To determine procedures for calculating interior and exterior angle calculations. <p>Polygons/2D & 3D shapes/symmetry & circles</p> <ul style="list-style-type: none"> To become familiar with a range of polygons and recognise the difference between 2D and 3D shape. To revise elements of symmetry – rotation, reflection, translation and enlargement. To name the common parts of a circle and work with area and circumference calculations, including arc length and understanding 'pi'. 						
Assessment / Feedback Opportunities	Topic assessments	Self-assessment sheets	Homework	Formative teacher assessment - verbal	Retrieval practice		
Cultural Capital	Use of number to solve real life problems involving widely used formulae Application of proportionality in real life problems including science						
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					
Key Vocabulary		Equation Expression Identity Inequality Formula Binomial Polynomial Simplify Expand Factorise Coefficient Subject Inequality Less than More than Solution Solution-Set Proportionality Direct Inverse Vectors Direction Magnitude Scalar Parallel Collinear					
Digital Literacy		Microsoft Excel, DESMOS, Geogebra					
Careers		Architecture, Team Leader, Construction, Chef, Medicine					

