

Mathematics Department Year 8

MAGHULL HIGH SCHOOL – CURRICULUM MAP



HALF TERM 1 SEPT - OCT	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
TOPIC (S)	Core catch up	8.1 Sequences	8.1 Sequences	8.2 Forming and Solving Equations	8.2 Forming and Solving Equations	8.3 Forming and Solving Inequalities	8.3 Forming and Solving Inequalities	Independent assessment and core catch up
Knowledge & Skills development	<p>Week 1: Core catch Up</p> <p>8.1 Sequences (7th Sept - 11th Sept)</p> <ul style="list-style-type: none"> Generating terms of a linear sequences Generating terms of a non-linear sequences Identifying different types of linear and non-linear sequences <p>8.1 Sequences (14th Sept - 18th Sept)</p> <ul style="list-style-type: none"> Finding a given term in a linear sequence Developing a rule for finding a term in a linear sequence Generalising the position to term rule for a linear sequence (nth term) <p>8.2 Forming and Solving Equations (21st Sept - 25th Sept)</p> <ul style="list-style-type: none"> Classifying expressions, equations, inequalities and identities Deriving equations from different contexts Solving linear equations with an unknown on one side (revise from Year 7) <p>8.2 Forming and Solving Equations (28th Sept - 2nd Oct)</p> <ul style="list-style-type: none"> Solving linear equations with an unknown on both sides Solving equations involving fractional terms and brackets Interpreting the solution to an equation based on the context from which it is derived <p>8.3 Forming and Solving Inequalities (5th Oct - 9th Oct)</p> <ul style="list-style-type: none"> Interpreting relationships expressed as inequalities (revise from year 7) Deriving inequalities from contexts Forming and solving inequalities with unknown on one side 							

	<p>8.3 Forming and Solving Inequalities (12th Oct - 16th Oct)</p> <ul style="list-style-type: none"> Forming and solving inequalities with an unknown on both sides Representing a solution on a number line <p>Week 8: (19th Oct - 23rd Oct)</p> <p>Independent revision and assessment. Designated Individual Reflection Time (DIRT) Core catch up</p>							
Assessment / Feedback Opportunities	Flashback for retrieval practice	End of each block mini assessments	End of term assessments	DIRT opportunities	Feedback in DFM during 'homework' sessions	Retrieval Homework	Formative teacher assessment - verbal	
Cultural Capital	Identifying patterns, working with unknown quantities							
SMSC / Promoting British Values (Democracy, Liberty, Rule of Law, Tolerance & Respect)	<p>Understanding the consequences of actions: Eg. If you perform a particular action to one number, will the same outcome apply to other numbers? Is it always the case? 'Sometimes, always, never' statements</p> <p>Participating, co-operating and resolving conflicts: as above, but also 'X thinks ___, Y thinks ___, who is right?' type questions.</p> <p>Understanding and appreciating personal influences: taking into account other people's views and understanding how to express own views. Eg. How to explain to someone where they may have gone wrong in a question.</p> <p>Use maths to learn about different faiths and cultures around the world. Eg. looking at patterns/shapes within Islam / Hindu religions.</p>							
Reading opportunities	Murderous Maths (Series) by Kjarten Poskitt							
Key Vocabulary	arithmetic sequence, difference, pattern, flow chart, general term, linear function, linear relationship, linear sequence, notation T(n), algebraic expression, collect like terms, formula, formulae, linear equation, linear expression, multiply out (expressions) prove, proof, transform, verify							
Digital Literacy	Excel Formula							
Careers	Programmer, Artist, Engineer, Teacher, Surveyor,							