

Maths- Y9

MAGHULL HIGH SCHOOL – CURRICULUM MAP



HALF TERM 5 June-July	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	
TOPIC (S)	Standard Form	Standard Form	Transformations	Transformations	Revision and assessment	2D representations of 3D shapes	
Knowledge & Skills development	<p><u>Standard form</u></p> <ul style="list-style-type: none"> understand and use place value (eg when working with very large or very small numbers) calculate with and interpret standard form $A \times 10^n$, where $1 \leq A < 10$ and n is an integer with and without a calculator <p>interpret calculator displays</p> <p><u>Transformations</u></p> <p>identify, describe and construct congruent and similar shapes, including on coordinate axes, by considering:</p> <ul style="list-style-type: none"> rotation reflection translation enlargement enlargement including fractional scale factors enlargement including negative scale factors <p>describe translations as 2D vectors</p> <p>describe the changes and invariance achieved by combinations of rotations, reflections and translations (including using column vector notation for translations)</p> <p><u>2D representations of 3D shapes</u></p> <p>construct and interpret plans and elevations of 3D shapes</p>						

Assessment / Feedback Opportunities	Topic assessments	Self-assessment	Homework (written and online)	Formative teacher assessment - verbal	Retrieval practice	
Cultural Capital	Application of standard form in science industry Application of transformations in gaming programming Application of plans and elevations in architecture and building					
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	Standard form, index, power, transform, enlarge, rotate, translate, reflect, symmetry, centre, scale factor, vector, similar, congruent, object, image, plan, elevation, view.					
Digital Literacy	Desmos, Geogebra, DFM, Mathspad, MStems					
Careers	Business, Finance, Architect, Statistician, Building, Engineer, Researcher, Design, Engineering, Scientist, Gaming programmer.					