## Maths- Y10F

## MAGHULL HIGH SCHOOL – CURRICULUM MAP



HALF TERM 3	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6			
JAN-FEB									
TOPIC (S)	Trigonometry (recap Pythagoras' Theorem)	Trigonometry	Further Perimeter and Area	Further Perimeter and Area	Further Circumference and Area	Further Circumference and Area			
Knowledge & Skills	<b>Trigonometry</b>								
Knowledge & Skills development	Irecap Pythagoras' Theorem) and Area and Area Circumference and Area Circumference and Area   Trigenometry   • know and use the trigonometric ratios: • sind = opposite/hypotenuse • cos0 = adjacent/hypotenuse • rea   • tan0 = opposite/adjacent • apposite/adjacent • tan0 = opposite/adjacent • rea   • tan0 = opposite/adjacent • apply them to find angles and lengths in right-angled triangles in two dimensional figures • compare lengths using ratio notation   Further Perimeter and Area • identify properties of the faces, surfaces, edges and vertices of: cubes, cuboids, prisms, cylinders, pyramids, cones and spheres • calculate the perimeter of a 2D shape and composite shapes •   • triangles • parallelograms • triangles • parallelograms •   • trapezia calculate the area composite shapes • find the surface area of pyramids and composite solids   Further Circumference and Area • identify and apply circle definitions and properties, including: centre, radius, chord, diameter, circumference, tangent, arc, sector and segment •   • calculate the perimeters of 2D shapes, including: circle and composite shapes • calculate areas of icricle = $\pi r^2$ • area of a circle = $\pi r^2$ calculate the perimeters of 2D shapes, includ								

Assessment /	Topic assessments	Self-assessment	Homework	Formative teacher	Retrieval practice					
Feedback		sheets	(written and	assessment -						
Opportunities			online)	verbal						
Cultural Capital	Use of Trigonometry in real life situations									
	Application of area and perimeter in problem solving (material required)									
SMSC / Promoting	Willingness to participate in, and respond to mathematical opportunities. Use of social skills in different contexts, including working and socialising									
British Values	with pupils from different religious, ethnic and socio-economic backgrounds.									
(Democracy, Liberty, Rule										
Respect)										
Reading	What's the point of maths? Murderous Maths, Marvellous Maths, Launch a rocket into space, Humble Pi.									
opportunities										
Key Vocabulary	Pythagoras, Theorem, Hypotenuse, Opposite, Adjacent, Square, Trigonometry, Sine, Cosine, Tangent, Right-angled, Solid, Net, Faces, Edges, Vertices,									
	Area, Perimeter, Formula, Perpendicular, Compound, Circumference, Radius, Diameter, Tangent, Chord, Sector, Segment, Pi									
Digital Literacy	Geogebra									
Careers	Engineering, Business, Architecture, Building, Gaming.									