Maths- Y10F

MAGHULL HIGH SCHOOL – CURRICULUM MAP

HALF TERM 4 FEB-MARCH	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	
TOPIC (S)	**Probability**	**Probability**	**Revision and Assessment**	**Properties of Polygons**	**Properties of Polygons**	**Number Review**	
Knowledge & Skills development	**Probability** • apply ideas of randomness, fairness and equally likely events to calculate expected outcomes of multiple future experiments • relate relative expected frequencies to theoretical probability, using appropriate language and the 0 to 1 probability scale • understand that empirical unbiased samples tend towards theoretical probability distributions, with increasing sample size • enumerate sets and combinations of sets systematically, using tables, grids, Venn diagrams and tree diagrams • calculate the probability of independent and dependent combined events, including using tree diagrams and other representations, and know the underlying assumptions **Properties of Polygons** • derive and use the sum of angles in a triangle (eg to deduce and use the angle sum in any polygon, and to derive properties of regular polygons) • derive and apply the properties and definitions of: special types of quadrilaterals, including square, rectangle, parallelogram, trapezium, kite and rhombus • triangles using appropriate language (including names and properties of isosceles, equilateral, scalene, right-angled, acute-angled and obtuse-angled triangles) • other plane figures using appropriate language **Number Review** • Work interchangeably with terminating decimals and their corresponding fractions (such as 3.5 and $\frac{7}{2}$ or 0.375 and $\frac{3}{8}$) • Apply the four operations, including formal written methods, to simple fractions (proper and improper) and mixed numbers - both positive and negative • Round numbers and measures to an appropriate degree of accuracy (e.g. to a specified number of decimal places or significant figures) • Use inequality notation to specify simple error intervals due to truncation or rounding •						

Assessment / Feedback Opportunities	Topic assessments	Self-assessment sheets	Homework (written and online)	Formative teacher assessment - verbal	Retrieval practice	
Cultural Capital	Application of probability and relative frequency applied in real life situations					
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	What's the point of maths? Murderous Maths, Marvellous Maths, Launch a rocket into space, Humble Pi.					
Key Vocabulary	Polygon, exterior, interior, isosceles, regular, irregular, Probability, Chance, Likelihood, Relative Frequency, Conditional, Dependent, Independent, Events, Experimental, Fraction, Sample Space, Tree Diagram, decimals, fraction, equivalent, terminating, recurring, accuracy, rounding, significant figures, bounds, truncate, round, intervals.					
Digital Literacy	Desmos, DFM, MSTeams					
Careers	Engineering, Business, Architecture, Building, Gaming, Banking, Economist, Statistician, Budgeting, Market Research.					