QPHS Year 9 Maths Curriculum Map

Half term	Title	Unit summary	Assessment
1	**U1 – Linear sequences and graphs**	Working with linear sequences and plotting graphs. Identifying key features on straight line graphs.	Application of knowledge and skills from the first 3 units of work through assessment (ALA 1) : • Plotting linear and quadratic graphs • Working with sequences • Solving problems involving proportion
	U2 – Non-Linear sequences and graphs	Working with quadratic sequences and plotting graphs. Identifying key features of quadratic graphs. Recognising non-linear sequences.	
	U3 - Proportion	Understanding direct and inverse proportion. Linking proportional relationships to graphical representations.	
2	**U4- Standard Form**	Convert numbers between standard form and ordinary numbers.	Application of knowledge and skills from the first 6 units of work through cumulative assessment (ALA 2): • Work in standard form • Calculate the estimate for a mean • Draw and interpret a scatter graph
	U5 – Working with grouped data	Appreciate the difference between types of data. Interpret grouped data and find an estimate for the mean.	
	U6 – Scatter graph	Draw and interpret scatter graphs. Understand correlation.	
3	**U7 – Expanding and factorising**	Expand double brackets and factorise expressions into a single bracket.	Application of knowledge and skills from the first 9 units of work through cumulative assessment (ALA 3): • Expand and factorise expressions • Calculate probability using Venn and tree diagrams • Enlarge shapes
	U8 – Probability	Calculate probability and relative frequency. Systematically list outcomes. Use Venn and probability tree diagrams.	
	U9 – Congruency, Similarity and enlargement	Use the properties of congruency and similarity. Enlarge shapes using a scale factor.	
4	**U10 – Transformations**	Translate, reflect and rotate shapes. Describe transformations using mathematical language.	Application of knowledge and skills from the first 13 units of work through cumulative assessment (ALA 4): • Transform shapes • Form and solve linear equations and inequalities • Rearrange formula • Use Pythagoras' theorem to solve problems
	U11 – Linear equations and changing the subject	Form and solve linear equations. Rearrange formula.	
	U12 – Linear inequalities	Form and solve linear inequalities. Plot graphs to represent inequalities.	
5	**U13 – Pythagoras' Theorem**	Use Pythagoras' Theorem to calculate the length of side of a right angle triangle.	
	U14 – Trigonometry	Understand the trigonometrical ratios and use them to find a missing angle or side in a right angle triangle.	Application of knowledge and skills from the all units of work through END OF YEAR cumulative assessment to assess all work covered during the year.
6	**U15 – Graphical solutions**	Develop skills to solve equations using graphs.	
	U16 – Accurate drawing	Develop skills to construct drawings and solve problems involving shape.	