



QPHS Year 10 GEM PATHWAY Maths Curriculum Map

Half term	Title	Unit summary	Assessment
1	U1 – Place Value U2 - Four operations U3 – Scale drawing, Plans and Elevations U4 – Positive and negative numbers	Consolidating number skills and methods for the four operations. Working with positive and negative numbers. Drawing scale diagrams, and accurate plans and elevations.	Application of knowledge and skills from the first 4 units of work through assessment (ALA 1), including : <ul style="list-style-type: none"> • Drawing accurate diagrams • Calculations with decimals, positive and negative numbers
2	U5 – Sequences U6 – Percentages (Inc application of skills in money) U7 – Handling data	Finding formula for sequences. Finding percentage increases and decreases. Calculate compound and simple interest. Construct and interpret charts and tables.	Application of knowledge and skills from the first 7 units of work through cumulative assessment (ALA 2) including: <ul style="list-style-type: none"> • Finding the nth term formula • Calculations involving percentages • Drawing charts and tables
3	U8 – Money sense U9 - Fractions	Consolidating knowledge of proportion through real life contexts – best buys, recipes. Explore maths in banking. Calculate fractions of amounts and execute calculations involving fractions.	Application of knowledge and skills from the first 9 units of work through cumulative assessment (ALA 3) including: <ul style="list-style-type: none"> • Best buys and recipe problems • Calculations involving fractions
4	U10 - Ratio U11 – Types of number	Simplify ratios. Share amounts in a given ratio. Recognise and find factors, multiples, primes and squares. Finding the Lowest Common Multiple (LCM) and Highest Common Factor (HCF)	Application of knowledge and skills from the first 12 units of work through cumulative assessment (ALA 4) including: <ul style="list-style-type: none"> • Solving problems with ratios • Finding factors, multiple and primes. • Finding LCM & HCF
5	U12 – Averages and range U13 – Area and Perimeter (including Circles)	Find and interpret mean, mode, median and range. Working with 2D shapes. Calculating area, perimeter of 2D shapes	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	U14 – Volume and SA U15 – Drawing skills (Bearing, scale, constructions, loci)	Calculating volume and surface area of 3D shapes. Learning to use bearings and scale. Drawing constructions and loci.	