



## QPHS Year 8 Maths Curriculum Map

Half term	Title	Unit summary	Assessment
1	<b>U1 – Rounding</b>	Rounding numbers and estimating answers.	Application of knowledge and skills from the first 3 units of work through assessment (ALA 1) : <ul style="list-style-type: none"> <li>• Rounding</li> <li>• Using prime factorisation to find LCM and HCF</li> <li>• Working with sequences</li> <li>• Solving equations</li> </ul>
	<b>U2 – Primes and factorising</b>	Find factors, multiples, primes, Lowest Common Multiples (LCM) and Highest Common Factors (HCF).	
	<b>U3 – Sequences, expressions and equations</b>	Review methods of working with of positive and negative numbers. Find the formula for the nth term. Solve equations.	
2	<b>U4- Percentages change</b> (including a review of Fractions, decimals and Percentages)	Increase and decrease amounts by given percentages, complete reverse percentage problems and use a multiplier to do calculations more efficiently.	Application of knowledge and skills from the first 5 units of work through cumulative assessment (ALA 2): <ul style="list-style-type: none"> <li>• Calculations involving percentages (calculator methods and non-calculator)</li> <li>• Calculations involving Speed, Distance and time.</li> </ul>
	<b>U5 – Ratio, proportion and rate</b>	Use the relationship between speed, distance and time to solve problems. Convert units accurately.	
3	<b>U6 – Handling data</b>	Understand different types of data. Construct tables and charts. Explore misleading data.	Application of knowledge and skills from the first 8 units of work through cumulative assessment (ALA 3): <ul style="list-style-type: none"> <li>• Draw and interpret charts including bar and pie</li> <li>• Calculate averages and compare data</li> <li>• Calculate the size of angles using rules</li> <li>• Recognise different polygons</li> </ul>
	<b>U7 – Averages</b>	Calculate mean, mode, median and range. Compare the averages of sets of data.	
	<b>U8 – Angles</b> (Triangles, quadrilaterals and angle rules)	Use and apply angle facts in 2D shapes and parallel lines. Recognise properties of polygons.	
4	<b>U9 – Length and area</b>	Find the area of parallelograms and trapezia. Find the area and perimeter of composite shapes.	Application of knowledge and skills from the first 10 units of work through cumulative assessment (ALA 4): <ul style="list-style-type: none"> <li>• Calculating areas and perimeters of 2D shapes including composite shapes</li> <li>• Draw and name 3D shapes</li> <li>• Use and draw plans and elevations</li> </ul>
	<b>U10 – Circumference and area of circles</b>	Find the area and circumference of a circle and parts of a circle. Convert squared units.	
5	<b>U11 – 3D shapes and nets</b>	Recognise and draw the net of 3D shapes. Draw plans and elevations of 3D 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.
	<b>U12 – Surface Area and Volume</b>	Find the volume and surface of cubes, cuboids, prisms, cylinders and composite shapes.	
6	<b>U13 - Probability</b>	Understand and use the probability scale and language of probability. Understand relative frequency and theoretical probability.	
	<b>U14 – Symmetry, tessellations and accurate drawing</b>	Constructing 2D shapes. Use symmetry and tessellations to investigate the shapes.	