

Year 11 Higher Scheme of learning 2022-2023 - Term 2

Stretch key learning in italics

Topic	Key learning	MathsWatch Clip No	☹	😊	☺
Circle Theorems Revision	Prove and use angle in a semi circle is a right angle & opposite angles in a cyclic quadrilateral sum to 180°	183			
	Prove and use all circle theorems	184			
	Find and give reasons for missing angles on diagrams	183 & 184			
	<i>Solve problems that involve reasoning and provide counter arguments</i>	183 & 184			
Histograms, Cum. Freq, Box plots Revision	Construct and interpret CF tables and graphs	186			
	Interpret box plots to find the median, quartiles and IQR	187			
	Construct and interpret histograms from class intervals with unequal widths	205			
	Interpret two or more data sets from box plots and relate the key measures	187			
Surface Area & Volume Revision	Find the volume and surface area of a cylinder	114a, 114b, 119			
	Use the formula for the volume of a pyramid and find the surface area	170			
	Solve more complex shapes and solids including segments of circles and frustums.	171 & 172			
	Combinations of 3D forms such as a cone and sphere where the radius needs to be calculated	169 - 172			
Accuracy & Bounds Revision	Calculate upper and lower bounds of numbers given to varying degrees of accuracy	206			
	Find the upper and lower bounds of calculations involving perimeter, area and volume	206			
	Use inequality notation to specify an error interval	155			
	<i>Find upper and lower bounds in real life situations</i>	206			
Percentages	Work out a percentage increase and decrease	109			
	Find a percentage of a quantity using a multiplier	108			
	Describe percentage increase/ decrease with fractions	109			
	<i>Find the original amount (reverse) using calculator and non calc methods</i>	110			
Simultaneous Equations and Graphs Revision	Use elimination or substitution to solve simultaneous equations	162			
	Solve 2 linear equations including where both need to be multiplied	162			
	Solve a linear and quadratic equation	211			
	Identify intersection points of a quadratic and linear graph	140			
Revision					
February half term					
Mocks					
Gap Filling					
Easter					