

Year 10 Higher Scheme of learning 2023-2024

Term 2

Stretch key learning in italics

Topic	Key learning	Mathswatch Clip No	☹	☺	😊
Cum. Freq., box plots & Histograms	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			
Mocks (2 weeks)					
Inequalities	Show inequalities on a number line	138			
	Solve simple linear inequalities	139			
	Solve 2 linear inequalities and compare them to see which value x satisfies	139			
	Justify why certain values in a solution can be ignored	139			
February half term					
Collecting data	<i>Understand what is meant by a sample and a population</i>	152			
	<i>Identify possible sources of bias and plan to minimise it</i>	152			
	<i>Design a survey where the questions eliminate bias</i>	152			
	<i>Justify why a sample may not be representative of the whole population</i>	152			
Advanced Trigonometry	Know and apply $\text{Area} = \frac{1}{2}ab\sin C$ to calculate the area, sides or angles of any triangle	203			
	Know and use the sine and cosine rules in 2D problems	201 & 202			
	Calculate the length of a diagonal of a cuboid	218			
	Find the angle between a line and a plane	218			
Changing the subject & Algebraic Fractions	<i>Rationalise the denominator involving surds</i>	207c			
	<i>Simplify algebraic fractions</i>	210a			
	<i>Apply the four operations to algebraic fractions</i>	210a & 210b			
	<i>Change the subject of a formula, where the subject occurs on both sides</i>	190			
	<i>Change the subject of a formula where all variables are in the denominators</i>	190			
Easter holidays					