Year 10 Objective List – Higher HT4

Handling Further Trigonometry & Trigonometric Graphs

Objective	Sparx Task	
1.Know and use the sine rule in 2D (including bearings problems)	U952	
2.Know and use the cosine rule in 2D (including bearings problems)	U591	
3.Apply the sine and cosine rules to 3D problems	U170	
4.Know and apply the trig area formula to find areas, sides or angles		
5.Use trigonometry to find lengths and angles between planes within solids.	U460	
6.Recognise, sketch and interpret graphs of the three trigonometric functions	U450	
7.Know exact values of sin, cos and tan for 0, 30, 45, 60 and 90 degrees (excluding tan 90)	U627	
8.Understand reflections of the graphs of sin, cos and tan in the x-axis and y-axis		
9.Understand translations of the graphs of sin and cos in the x-axis and the y-axis		

Data 2

Objective	Sparx Task	
1.Understand types of data and how bias can affect data collection	U162	
2.Understand samples/populations and how to efficiently collect data	U162	
3.Find a stratified sample.	U162	
4.Construct and interpret cumulative frequency tables and graphs	U182 U642	
5.Use cumulative frequency to find median, quartiles and frequencies greater/less than a certain value.	U507	
6.Produce and interpret box plots. Use these to compare data and make inferences.	U879	
7.Construct and interpret histograms. (understand and use frequency density)	U814	

	U983	
8.Estimate the mean and/or median from a histogram	U267	