GCSE Mathematics (Higher) BHES

Year 11

Term 1				Term2				
	7 weeks		28hrs		7 weeks		28hrs	
Area	Торіс		Hours	Area	Торіс		Hours	
Number	Number Revision		4					
Statistics	Further Statistics		11	Ratio & Proportion	Multiplicative Reasoning		12	
	Subject	Grade			Subject	Grade		
	Sampling	4			Growth and Decay	5		
	Cumulative Frequency	6			Compound Measures - calculation using rate - Speed = distance / time problems	5 3		
	Box Plots	6			Further Compound Measures - converting area and volume measures	4		
Extension	Drawing Histograms - frequncy density - drawing histograms	7/8		Extension Extension	Ratio and Proportion - direct and indirect proportion - using relationships involving ratios - recognising graphs of y=1/x and y=x	7 6 6/7		
Extension	Interpreting Histograms	8						
Extension	Comparing and describing populations - comparing 2 data sets	8						
Algebra	Further Algebra		13	Geometry & Measure	More Trigonometry		16	
	Subject	Grade			Subject	Grade		
	Rearranging Formulae - involving power in subject - where the subject appears twice	5 6		Extension	Graph of Sine Function	8		
	Simplifying Algebraic Fractions	6		Extension	Graph of Cosine Function	8		
Extension Extension	Algebraic Fractions - adding and subtracting - multiplying and dividing - changing the subject (variable in denominator) Surds	8 8 5		Extension	Graph of Tangent Function	8		
Extension	- manipulating - simplifying	7 8			Calculating area annd the Sine Rule	7		
	Solving Algebraic Fraction Equations - finding LCM of two fractions - solving quatradic equations by factorisiation	5		Extension	The Cosine Rule and 2D trig problems - use of Cosine rule - solving bearing problems using trig	7 8		
Extension Extension	Functions - using function notation - finding composite functions - finding inverse functions Proof - proving using simple logic	6 8 8		Extension	Solving problems in 3D - using Pythagoras Theorem - using trigonometry	7 8		
Extension	- proving a result using Algebra	7						

			Spring	Term			
Term 3				Term 4			
	6 weeks		24hrs		7 weeks		28 hrs
Area	Торіс		Hours	Area	Торіс		Hours
Geometry & Measure	Circle Theorem		10	General	Numbers Review		4
	Subject	Grade			Extension Work		9
	Radii and Chords	8			Subject	Grade	
	Tangents	8			Grade 6 / 7 Tonics Not Covered		
	Angles in Circles - understand and use facts about angles subtended from the centre	0					
	 udnerstand and use facts on angles in a semicircle finding missing angles using theorems 	8			Topic Review		
	Further angles in a circle - understand and use facts about angles subtended from the circumference						
	 understand and use facts about cyclic quadrilaterals understand and use facts about angles 	8					
	int he same segment - prove alternative segment theorem						
Extension	Applying Circle Theorems to Solve Problems	8/9					
Geometry	Vectors & Geometric Proofs		14	General	Extension Work		13
	Subject	Grade			Subject	Grade	
	Vectors and vector notation - correct use of notation - determining the magnitude of a vector	6			Grade 6 / 7 Topics Not Covered		
	Vector Arithmetic	6			Topic Review		
Extension	Further Vector Arithmetic - solving problems	7					
Extension	Parallel Vectors and Collinear Points	8					
Extension	Solving Geomtric problems using Vectors	8/9					
			14		1		12

Summer Term							
Term 5	Term 6						

			20			
	5 weeks		hrs	7 weeks		28 hrs
Area	Торіс		Hours	Area	Торіс	Hours
	Revision					
	Past Papers				GCSE Examinations	
	Extension Exercise					
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