Hebburn Comprehensive School Key Stage 3 Scheme of Learning Overview

Mathematics Department

	Lower	Middle	Upper
Year 7	Stage 1	Stage 2	Stage 3
Year 8	Stage 2	Stage 3	Stage 4
Year 9	Stage 3	Stage 4	Stage 5

	Years 7, 8 & 9			
Topics by Stage Stage 1 Topics				
Written Calculations and Checking	Transformations and Vectors	Measures and Mensuration		
Geometrical Reasoning: lines, angles and	Sequences, Functions and Graphs	Calculations and Checking		
shapes	Mental Calculations and Checking	Equations, Expressions and Functions		
Equations, Formulae, Identities and	Processing and Representing Data: Interpreting	Geometrical Reasoning: Shapes and		
Expressions	Results	Coordinates		
Integers, Powers and Roots	Fractions, Decimals and Percentages	Statistical Enquiry		
Probability	Equations, Formulae, Identities and	Construction and Loci		
Sequences, Functions and Graphs	Expressions	Problem Solving		
Measures and Mensuration: Area	Ratio and Proportion			
	Stage 2 Topics			
Autumn	Spring	Summer		
Written Calculations and Checking	Transformations and Vectors	Measures and Mensuration		
Geometrical Reasoning: lines, angles and	Sequences, Functions and Graphs	Calculations and Checking		
shapes	Mental Calculations and Checking	Equations, Expressions and Functions		
Equations, Formulae, Identities and	Processing and Representing Data: Interpreting	Geometrical Reasoning		
Expressions	Results	Statistical Enquiry		
Integers, Powers and Roots	Fractions, Decimals and Percentages	Construction and Loci		
Probability	Equations, Formulae, Identities and	Problem Solving		
Sequences, Functions and Graphs	Expressions			
Measures and Mensuration: Area	Ratio and Proportion			
	Stage 3 Topics			
Autumn	Spring	Summer		
Written Calculations and Checking	Transformations and Vectors	Measures and Mensuration: Volume		
Geometrical Reasoning: lines, angles and	Sequences, Functions and Graphs	Calculations and Checking		
shapes	Mental Calculations and Checking	Equations, Expressions and Functions		
Equations, Formulae, Identities and	Processing and Representing Data: Interpreting	Geometrical Reasoning		
Expressions	Results	Sequences, Functions and Graphs		
Integers, Powers and Roots	Fractions, Decimals and Percentages	Statistical Enquiry		
Sequences, Functions and Graphs	Measures and Mensuration	Construction and Loci		
Probability	Equations, Formulae, Identities and			
Measures and Mensuration: Area	Expressions			
	Ratio and Proportion			
	Stage 4 Topics	I a		
Autumn	Spring	Summer		
Written Calculations and Checking	Transformations and Vectors	Measures and Mensuration: Volume		
Geometrical Reasoning: lines, angles and	Sequences, Functions and Graphs	Calculations and Checking		
shapes	Mental Calculations and Checking	Equations, Expressions and Functions		
Equations, Formulae, Identities and	Processing and Representing Data: Interpreting	Geometrical Reasoning: Coordinates and		
Expressions	Results	Construction		
Integers, Powers and Roots	Fractions, Decimals and Percentages	Sequences, Functions and Graphs		
Sequences, Functions and Graphs Probability	Measures and Mensuration	Statistical Enquiry		
•	Equations, Formulae, Identities and	Construction and Loci		
Measures and Mensuration: Area	Expressions Patie and Proportion			
	Ratio and Proportion			



Stage 5 Topics				
Autumn	Spring	Summer		
Written Calculations and Checking	Transformations and Vectors	Measures and Mensuration: Volume, mass and		
Geometrical Reasoning: lines, angles and	Sequences, Functions and Graphs	density		
shapes	Processing and Representing Data: Interpreting	Calculations and Checking		
Equations, Formulae, Identities and	Results	Equations, Expressions and Functions		
Expressions	Fractions, Decimals and Percentages	Geometrical Reasoning: Trigonometry		
Integers, Powers and Roots	Measures and Mensuration	Sequences, Functions and Graphs		
Sequences, Functions and Graphs	Equations, Formulae, Identities and	Statistical Enquiry		
Probability	Expressions	Construction and Loci		
Measures and Mensuration: Area	Ratio and Proportion			

Please note: As pupils progress through the stages they will recap the same topics but at a more advanced level. For example, in the sequences strand, a stage 1 pupil would be expected to describe an integer sequence and generate simple terms. A stage 3 pupil would calculate the nth term of a linear sequence, and stage 5 would cover quadratic and geometric sequences.