School Vision	Challenging	all our studen	ts supportivel	y to become o	onfident and	curious enha	ncing lives nov	w and in the fu	ıture			
Faculty Intent	To engender a desire and passion to learn and be inspired in STEM subjects outside the class – applying learning in unfamiliar situations											
Subject Intent	"Provides a foundation for understanding the world, the ability to reason mathematically, an appreciation of the beauty and power of mathematics, and a sense of enjoyment and curiosity about the subject."											
	Term 1 Number	Statistics A	Algebra Nur	nber	Term 2 Geometry	Number	Algebra	Term 3 Number Geometry Geometry				
Topic Name Key Content	4 operations Negative numbers	Tables & charts Averages & range graphs	Number Machines Expressions formulae	Comparing Equivalence Add & subtract percentages	Right angles Measuring drawing	Estimating Metric units Four operations Rounding	Real life graphs Co- ordinates Graphs of functions	Multiples Factors Primes	Symmetry Perimeter Area	Reflection Translation Rotation		
Intent												
How does this link to your intent?	As with path	way 1 but wit	h more empha	nsis on the bas	ic skills and fo	r life long lear	ning.					
Sequencing												
Why this and why now?			•	_	-	•	_	to build upon m ted where poss				
National Curriculum Audit												
Number	Х	X	X	Х	Х	Х	Х	Х	Х	х		

Algebra			х				х			
Ratio and proportion								х	х	х
Geometry					х		х		х	х
Probability										
Statistics		х								
Key concepts / Vocabulary										
12 or less	Integers Negative Positive	Mean Mode Median Range	Expressions Formulae	Equivalence	Acute Obtuse Reflex	Estimating Rounding	Graphs Functions	Multiples Factors Primes	Symmetry Perimeter Area	Reflection Translation Rotation
Learning Outside the Classroom / Cultural Capital			D. III							
Opportunities			Bath Fizzers			Engineering			Careers	
Homework										
Description	Weekly homework to consolidate learning									

Assessment										
Туре	AfL to assess	ongoing learn	ing and teach	ing						
	Chapter asse	essments to fee	edback to stud	dents, parents	and teachers	of progress. Al	I summative a	ssessments ar	e used format	ively.
	End of Year a	assessment is a	an opportunity	y to support ar	nd direct stude	ents and paren	its to home lea	irning and hov	w to revise. Th	e use of PLC
	to prepare, p	olan and reviev	v assessments	5.						
Why this										
style of										
assessment										
and why										
now?										

Year 8

School Vision	Challenging all our students supportively to become confident and curious enhancing lives now and in the future	
Faculty	To engender a desire and passion to learn and be inspired in STEM subjects outside the class – applying learning in	
Intent	unfamiliar situations	
Subject Intent	"Provides a foundation for understanding the world, the ability to reason mathematically, an appreciation of the beauty and power of mathematics, and a sense of enjoyment and curiosity about the subject."	

	Term 1							Term 3		
	Number	Geometry	Statistics	Algebra	Number	Geometry	Number	Algebra	Number	Probability
Topic Name	Large integers	3D solids	Data collection	Expressions	Decimal + - Decimals x/	D & M angles	Powers & roots	Sequences	Fractions	Basic
Key Content	Negative	Nets	Bar charts	Functions Equations	ordering	Vertically opposite	Indices	Special sequences	Frac of amount	Outcomes calculations
,	numbers Ratio and	Surface area	Pie charts	Brackets	Rounding	angles in triangles	LCM HCF	Nth term	Fractions +	Experimental
	proportion	Volume				Drawing triangles	Factor decomp		– Percentages	
Intent										
How does this link to your intent?	As with path	nway 1 but wit	th more emph	asis on the ba	sic skills and f	or life long lear	ning.			
Sequencing										
Why this and why now?			•	_	•	vith a revisit of pr cross STEM subje	_	•		
National Curriculum Audit										
Number	Х	Х	Х	Х	Х	Х	Х	Х	Х	х
Algebra				х				х		
Ratio and proportion	X									
	X	x				х				

Statistics			х							
Key concepts / Vocabulary										
12 or less	Integers	Nets	Data collection	Expressions	Place value	Vertically opposite	Indices	Sequences	Fractions	Probability
	Proportion	Surface area	Displaying data	Functions Equations	Rounding	Constructio n	LCM HCF	Nth term	Percentages	Experimenta I
Learning Outside the										
Classroom /										
Cultural										
Capital			- · ·							
Opportunitie s			Bath Fizzers			Engineering			Careers	
Homework										
Description	Weekly homework to	Weekly homework to	Weekly homework to	Weekly homework to	Weekly homework to	Weekly homework to	Weekly homework to	Weekly homework to	Weekly homework to	Weekly homework to
	consolidat	consolidat	consolidat	consolidat	consolidat	consolidate	consolidat	consolidat	consolidat	consolidate
	e learning	e learning	e learning	e learning	e learning	learning	e learning	e learning	e learning	learning
Assessment										
Туре	Chapter asse End of Year		edback to stu an opportunit	dents, parents ty to support a		s of progress. A dents and parei				•

Why this					
style of					
assessment					
and why					
now?					

Year 10

School Vision	Challenging all our students supportively to become confident and curious enhancing lives now and in the future												
Faculty Intent	situations	engender a desire and passion to learn and be inspired in STEM subjects outside the class – applying learning in unfamiliar tuations Provides a foundation for understanding the world, the ability to reason mathematically, an appreciation of the beauty and power of											
Subject Intent			or understandi e of enjoymen	_	-		ematically, a	n appreciatioi	n of the beau	ty and power of			
	Term 1				Term 2			Term 3					
Branch of Maths	Number	Algebra	Statistics	Number	Algebra	Geometry	Statistics	Geometry	Algebra	Geometry			
Topic Name Key Content	Powers BIDMAS	Algebraic notation Brackets	Graphs Statistical diagrams	Fractions Percentage	Equations Inequalities	Angles in; Polygons	Averages; Mean	Perimeter Area	Gradient Y intercept	Transformation s; Enlargement			
,	LCM/HCM	and Factorising Substitution	Interpretatio n	Decimal multipliers	Rearranging formulae Nth term	Parallel lines	Mode Median	Volume	Straight lines	Reflection Translation Rotation			

					1	<u> </u>	Range		1	
Intent							Hange			
How does this link to your intent?		concepts. acqu	 ication in mather uire, select and a							
Sequencing										
Why this and why now?			elements of man						ect of the curric	culum shows a
National Curriculum Audit										
Number	Х	Х	Х	Х	Х	Х	Х	Х	Х	х
Algebra		х			х				х	
Ratio and proportion				х	х					
Geometry						Х		Х		х
Probability										
Statistics			х				х			
Key concepts / Vocabulary										
12 or less	Powers & roots	Algebraic notation	Graphs	Fractions Percentage	Equations Inequalities	Angles in; Polygons	Averages; Mean	Perimeter Area	Gradient Y intercept	Transformation s; Enlargement

	BIDMAS LCM/HCM	Brackets and Factorising Substitution	Statistical diagrams Interpretatio n	Decimal multipliers	Rearranging formulae Nth term	Parallel lines	Mode Median Range	Volume	Straight lines	Reflection Translation Rotation
Learning Outside the Classroom / Cultural Capital										
Opportunitie s						Engineerin g			Careers	
Homework										
Description	Weekly homework to consolidat e learning	Weekly homework to consolidat e learning	Weekly homework to consolidate learning	Weekly homework to consolidat e learning	Weekly homework to consolidate learning					
Assessment										
Type	teachers, stud been taught. make progres	dents and pare These retrieval ss and be succe	every unit to mo nts of next steps activities also er ssful in further s necking for unde	. Starter tasks ansure that ever tudy. Assessme	are retrieval bas y pupil is fluent	sed; this means and confident	pupils can den	nonstrate prog d methods that	ression after th are most frequaching and lear	e content has uently needed to
Why this style of assessment and why now?									Mock Exam	

Year 11

School Vision	Challenging	all our studen	ts supportivel	y to become c	onfident and	curious enhar	icing lives now	and in the f	uture				
Faculty Intent	To engender a desire and passion to learn and be inspired in STEM subjects outside the class – applying learning in unfamiliar situations												
Subject Intent	"Provides a foundation for understanding the world, the ability to reason mathematically, an appreciation of the beauty and power of mathematics, and a sense of enjoyment and curiosity about the subject."												
	Term 1				Term 2			Term 3					
Branch of Maths	Number	Geometry	Statistics	Number	Geometry	Algebra	Geometry	Number	Geometry	Algebra			
Topic Name Key Content	Ratios Proportion; Direct Indirect	Right Angled Triangles; Pythagoras Trigonometr y	Probability; Space diagrams Venn Diagrams Frequency Trees	Multiplicative Reasoning; Proportion FDPR Interest Compound Measures	Constructio n & Loci; Bisectors Loci	Quadratics; Factorising Solving Sketching	Volume and Surface area of 3D shapes Prisms Cylinders	Indices Fractions Standard Form	Congruence Similarity Vectors	Simultaneou s Equations Cubic graphs Reciprocals			
Intent													
How does this link to your intent?		d on this specific concepts. acquir clusions											

us elements of m ills and procedure				g but not relian		of the curriculu	im shows a
X	X	X	X				
X	Х	X	X				
				X	X	X	x
			х		х		
	х			х			
		Х	х				х
						х	
х							
etr Venn	Multiplicativ e Reasoning; Proportion FDPR Interest	Constructio n & Loci; Bisectors Loci	Quadratics; Factorising Solving Sketching	Volume and Surface area of 3D shapes Prisms	Indices Fractions Standard Form	Congruence Similarity Vectors	Simultaneou s Equations Cubic graphs Reciprocals
	ras diagrams	ras diagrams Proportion FDPR Interest	ras diagrams Proportion Bisectors FDPR Loci Diagrams Compound	ras diagrams Proportion Bisectors Solving netr Venn Diagrams Compound Sketching	ras diagrams Proportion Bisectors Solving shapes The Proportion FDPR Solving Prisms Diagrams Compound Cylinders	ras diagrams Proportion FDPR Solving Standard Prisms Standard Prisms Form Diagrams Compound Compound Cylinders	ras diagrams Proportion FDPR Solving Standard Prisms Standard Prisms Standard Form Compound Cylinders

			Frequency							
			Trees							
Learning										
Outside the										
Classroom /										
Cultural										
Capital										
Opportunitie						Engineerin			Careers	
s						g				
Homework										
Description	Weekly	Weekly	Weekly	Weekly	Weekly	Weekly	Weekly	Weekly	Weekly	Weekly
	homework	homework	homework	homework	homework	homework	homework	homework	homework	homework
	to	to	to	to	to	to	to	to	to	to
	consolidat	consolidate	consolidat	consolidate	consolidat	consolidate	consolidat	consolidat	consolidat	consolidate
	e learning	learning	e learning	learning	e learning	learning	e learning	e learning	e learning	learning
Assessment				Mock					GCSE	
Туре	Students are assessed after every unit to monitor progress and to also highlight misconceptions. These assessments are summative but feedback to teachers, students and parents of next steps. Starter tasks are retrieval based; this means pupils can demonstrate progression after the content has been taught. These retrieval activities also ensure that every pupil is fluent and confident in the facts and methods that are most frequently needed to make progress and be successful in further study. Assessment for Learning techniques are used effectively to inform teaching and learning, mini whiteboards are crucial in checking for understanding.									
Careers	Career opportunities are unlimited for mathematics majors. They may pursue graduate education, career paths in business, science or technical fields or disciplines such as social services, education, and government. Some of the occupations that mathematics graduates enter include:									
	• accountant									
	■ actuary									
	■ computer programmer									
	■ doctor									
	• engineer									
	■ investment management									

- theoretical mathematician
- mathematician
- numerical analyst
- statistician
- teacher
- market researcher
- systems analyst
- banking
- government
- space/aircraft industry
- lawyer