

Autumn 1		Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Pre Year 7							
This course is studied ir	primary school.	Interventions/support in place: Afterschool Targeted Intervention. Learning Support Assistance in Classes Small Group Intervention during lesson time for targeted pupils					
Year 7							
Topic/Focus	NP1 (5 weeks) Place Value & the NumberLineWriting integers and decimalsOrdering positive and negative integers and 	<ul> <li>NP2 (1 week following on from AU1) Addition</li> <li>&amp; Subtraction</li> <li>Angles- On a straight line, around a point, vertically opposite and in a triangle</li> <li>Calculating Mean and</li> <li>Range of a set of data</li> <li>Applying addition and subtraction to real life problems</li> <li>Addition and Subtraction in Binary</li> <li>NP3 (4 weeks)</li> <li>Multiplication &amp; Division</li> <li>Calculating multiplication tables up to 12x12</li> <li>Multiplying and Dividing positive integers and decimals</li> <li>Understanding the commutative, associative laws and distributive properties between multiplication and division</li> </ul>	NP4 (2 weeks following on from AUT2) Powers, Roots & Primes Understanding roots as an inverse of powers Prime Numbers Prime Factorisation and using this to find factors of numbers NP5 (2 weeks) Order of Operations Using Order of Operations in Calculations Including Brackets, Indices, Roots and Decimals NP6 (2 weeks plus 1 week in SPR2) Directed Numbers Negative Numbers in Context Ordering Positive and Negative Numbers including on a Number Line Calculating with Negative Numbers	NP6 (1 weeks following on from SPR1) DirectedNumbersPowers of NegativeNumbersOrder of Operations with Negative NumbersApplying NegativeNumbers to Real LifeSituationsA1 (1 week)Introduction toAlgebraic ThinkingSubstituting Numbers for VariablesFinding Missing Value of Box or SymbolAddition and Subtraction of Linear TermsPlacing Unknowns on a Number Line Using InequalitiesNP7 (4 weeks) Fractions of Fractions and Placing on a Number Line Proper, Improper and Equivalent Fractions Simplifying Fractions	NP8 (4 weeks)PercentagesVisual Representationsof Percentages includingPercentages more than100Expression One Numberas a Percentage ofAnotherFDP Equivalence,Converting and OrderingCalculating Percentageof Amount (Non-Calculator andCalculator)Percentage and FractionIncrease and DecreaseThe Effect of Multiplyingby Numbers between 0and 1NP9 (1 week plus 2weeks in SPR2)Estimation & Use of theCalculatorPlaces and SignificantFiguresWriting Single andCompound Inequalities	NP9 (2 weeks following on from SUM1)Estimation & Use of theCalculatorRounding ErrorsUpper and LowerBoundsTruncationError IntervalsApproximatingCalculations includingPowers and RootsUsing PercentageMultipliers to Calculate aPercentage of AmountCalculations of Time withand without a CalculatorUnderstandingTimetablesGM1 (2 weeks) Drawing,Measuring andConstructingLearning how to use aRuler, Protractor andCompass correctly toMeasure and DrawLabelling Line Segmentsand Angles Correctly	



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	between addition and	Understand how to		Calculating with	and Representing them	Constructing Triangles
	subtraction.	invert multiplication and		Fractions including	on a Number Line	and Parallel Lines
	Understand how to	division calculations and		Improper Fractions and		Perpendicular and Angle
	invert addition and	their fact families		Mixed Numbers		Bisectors
	subtraction calculations	Factors and Multiplies		Order of Operations and		Loci-
	and their fact families	including LCM and HCF		Problem Solving with		Fixed distance from a
	Understand how to	Multiplicative reasoning		Fractions		Point and a Line
	continue an	Continuing a geometric				Equidistance from two
	arithmetic/linear	sequence				points and two lines
	sequence	Area of rectangles and				
		triangles				
		Volume of Cubes and				
		Cuboids				
		Applying multiplication				
		and division to real life				
		problems				
		Multiplication and				
		division in Binary				
		NP4 (1 week plus 2				
		weeks in SPR1) Powers,				
		Roots & Primes				
		Squares and Roots up to				
		15 <sup>2</sup>				
		Cubes and Roots up to				
		10 <sup>3</sup>				
		Calculating using powers				
	Students need a good	Multiplication and	Pupils need to	Pupils will have already	Percentages follows on	Before moving onto
	understanding of Place	Division naturally follows	understand the Order	been introduced to	from Fractions and	more complicated
	Value, Addition and	on from Addition and	the Operations occur	substitution and finding	Decimals and enables	Mathematical skills
	Subtraction as this	Subtraction.	before moving onto	missing values. A1 brings	pupils to identify the	pupils need to
Sequencing	underpins all Maths		higher level skills. This	this all together and	links between them.	understand how to
	skills.	Powers, Roots and	also follows on from the	introduces the use of		manipulate and simplify
		Primes develops the	previous operations they	algebra to these		expressions (A2) as this
		skills learnt in	have learnt.	previously learnt skills.		links into what pupil will
						learn in Year 8.



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
		Multiplication and	Following on from the	Ordering and Calculating		
		Division to a higher level.	topics pupils then need	with Fractions follows on		GM1- Pupils need to be
			to understand how to	from Place Value and		able to use and
			use negative numbers	Calculating with Integers		understand equipment
			with the four operations.	and Decimals. It also		and notation they will
				allows pupils to identify		use in other topics. For
				the equivalent fractions		instance, a protractor
				to integers and decimals.		will be used with Angles
						and Rulers will be used
						with Scales and drawing
						axis on graphs and co-
						ordinates grid.
	Complete Maths	Complete Maths	Complete Maths	Complete Maths	Complete Maths	Complete Maths
Extended Learning	Homework for revision	Homework for revision	Homework for revision	Homework for revision	Homework for revision	Homework for revision
	and extension	and extension	and extension	and extension	and extension	and extension
	Topic Tests to identify	Topic Tests to identify	Topic Tests to identify	Topic Tests to identify	Topic Tests to identify	Topic Tests to identify
Formal Accordment	knowledge retained and	knowledge retained and	knowledge retained and	knowledge retained and	knowledge retained and	knowledge retained and
runnal Assessment	inform retrieval starters	inform retrieval starters	inform retrieval starters	inform retrieval starters	inform retrieval starters	inform retrieval starters
	for next term	for next term	for next term	for next term	for next term	for next term



Year 8		1	I			
	<u>NP8 (3 weeks)</u>	<u>GM1 (1 week following</u>	A4 (2/3 weeks) Linear	<u>SP1 (3 weeks) Discrete</u>	<u>GM3 (2 weeks) Area</u>	<u>NP11 (1/3 weeks)</u>
	Percentages	on from AU1) Drawing,	<u>Equations</u>	<u>Data</u>	Calculating Area by	<u>Ratio</u>
	Visual Representations	Measuring and	Understanding Equality	Understanding the data	Counting Squares	Ratio Notation
	of Percentages including	Constructing	and Balancing	cycle	Calculate the Area of	Expressing
	Percentages more than	Loci-	Solving One and Two	<u>Qualitative data</u>	Triangles, Quadrilaterals,	Relationships as Ratios
	100	Fixed distance from a	Step Equations	Using qualitative data to	Rectilinear Shapes,	Simplifying Ratios
	Expression One Number	Point and a Line	(including Brackets)	construct a frequency	Circles and Compound	Apply Ratios to Scale
	as a Percentage of	Equidistance from two	Solving Equations with	table, bar chart,	Shapes	Drawings and Maps
	Another	points and two lines	an Unknown on Both	pictograms and Pie	Problem Solve involving	Converting between
	FDP Equivalence,		Sides (including	Charts	Area	Fractions and Ratios
	Converting and Ordering	A2 (2 weeks)	Brackets)	Quantitative data		Finding the Value of
	Calculating Percentage	Manipulating and	Solving Simple Equations	Understanding the	SP2 (2 weeks) Bivariate	Parts of a Ratio given
	of Amount (Non-	Simplifying Expressions	when the Unknown is	difference between	Data & Time Series	other Parts or the
	Calculator and	Understanding Algebraic	the denominator	discrete and continuous	Draw a scatter graph.	Whole
	Calculator)	Notation	Forming and Solving	data	Understand the different	
	Percentage and Fraction	Collecting Like Terms	Equations	Using quantitative data	types of correlation.	A5 (2 weeks) Formulae
Торіс	Increase and Decrease	Simplifying Indices when		to construct ungrouped	Draw and use a line of	Function Machines
	The Effect of Multiplying	Multiplying and Dividing	NP10 (3 weeks)	and grouped frequency	best fit.	Inputs and Outputs
	by Numbers between 0	Multiplication Rule for	Proportional Reasoning	tables, vertical line harts,	Instruct and interpret a	Evaluating Expressions
	and 1	Indices (Power of a	Calculating Simple Direct	bar charts, pie charts,	time series graph.	and Formulae by
		Power)	and Inverse Proportion	pictograms and Stem	Calculate and use a	Substitution
	<u>NP9 (2 weeks)</u>		Problems Numerically	and Leaf Diagrams	moving average.	Writing Formulae in
	Estimation & Use of a	A3 (2 weeks)	Comparing Quantities	Calculating Mean,		Words and Letters
	<b>Calculator</b>	Manipulating and	(Best Value for Money,	Median, Mode, Range	NP11 (2/3 weeks) Ratio	Generating Sequences
	Rounding Errors	Simplifying Expressions	Exchange Rates etc)	and Interquartile Range	Ratio Notation	from Formulae
	Upper and Lower	Expanding Single	Using	Comparing Data	Expressing Relationships	Rearranging Linear and
	Bounds	Brackets including	Using Proportion to		as Ratios	Non-Linear Formulae
	Truncation	Adding or Subtracting	solve Scaling Up and	GM2 (3 weeks) Polygons	Simplifying Ratios	including Powers and
	Error Intervals	them.	Down Problems e.g.	and Angles	Apply Ratios to Scale	Roots
	Approximating	Factorising into a Single	Recipes Portions,	Types of Angles	Drawings and Maps	
	Calculations including	Bracket	Enlargements of Shapes	Estimating Angles	Converting between	A6 (4 weeks) The
	Powers and Roots	Expanding Two Simple		Finding angles and using	Fractions and Ratios	Cartesian Grid
		Binomials		Angles on a Straight Line,		



	Using Percentage	Writing more Complex	Converting between	Around a Point and	Finding the Value of	Drawing an accurate
	Multipliers to Calculate	Algebraic Expressions	Units of Time, Length,	Vertically Opposite	Parts of a Ratio given	Cartesian Grid
	a Percentage of Amount		Capacity and Mass	Angles to Solve Problems	other Parts or the Whole	Plotting and Identifying
	Calculations and	A4 (1/3 weeks) Linear	Reading Scales in			Co-ordinates
	Estimations of Time with	<b>Equations</b>	Context			Introduction to Two
	and without a Calculator	Understanding Equality	Percentage Increase and			Dimensional Vectors
	Understanding	and Balancing	Decrease			Finding the Mid-Point
	Timetables	Solving One and Two	Finding a Percentage			of a Line Segment
		Step Equations	Change			Expressing Number
	A2 (2 weeks)	(including Brackets)				Relationships
	Manipulating and	Solving Equations with				Algebraically
	Simplifying Expressions	an Unknown on Both				
	Understanding Algebraic	Sides (including				
	Notation	Brackets)				
	Collecting Like Terms	Solving Simple Equations				
	Simplifying Indices when	when the Unknown is				
	Multiplying and Dividing	the denominator				
	Multiplication Rule for	Forming and Solving				
	Indices (Power of a	Equations				
	Power)					
	Due to closing the gaps	A3 follows on and builds		GM2 follows on and	GM3 follows on and	
	in some areas we felt	on the algebraic		builds on the knowledge	builds on the knowledge	
	there was value in	knowledge gained in A2		gained in GM1 and A4.	gained in NP10 and GM2	
	spending longer in some	such as collecting like		Algebraic equations and	as direct proportion is	
	topics in year 7	terms is used when		Angles knowledge are	used when converting	
	therefore NP8 and NP9	expanding brackets.		combined together to	units of area and	
Sequencing	were moved into the			answer questions on	enlarging shapes/areas.	
Jequencing	start of year 8. These	A4 follows on and builds		angles.		
	follow on from topic	on the algebraic			NP11 follows and builds	
	areas taught in year 7.	knowledge gained in A3			on the knowledge gained	
		as you will need to know			in GM2, GM3 and NP10	
		how to expand and			as ratio links to angles,	
		factorise brackets to			enlargement of shapes	
		solve equations.			and direct proportion.	



|                   | Complete Maths            | Complete Maths          |
|-------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|-------------------------|
| Extended Learning | Homework for revision     | Homework for revision   |
|                   | and extension             | and extension           |
|                   | Topic Tests to identify   | Topic Tests to identify |
| Formal Accossment | knowledge retained and    | knowledge retained      |
| Formal Assessment | inform retrieval starters | and inform retrieval    |
|                   | for next term             | starters for next term  |



Year 9						
	A7 (3 weeks) Sequences	<u>NP12 (3 weeks)</u>	<u>SP3 (4 weeks)</u>	<u>A10 (2/4 weeks)</u>	GM5 (3 weeks) Right-	<u>GM7 (2 weeks)</u>
	Be able to find missing	Standard Form	Introduction to	Advanced Linear Graphs	Angled Triangles	Advanced Drawing,
	values in sequences.	Writing numbers in	Probability	and Equations	Calculate missing sides	Measuring and
	Know the 4 types of	standard form.	Know how to write a		on triangles using	Constructing
	sequence.	Carrying out calculations	probability as a fraction,	Drawing algebraic	Pythagoras Theorem.	Calculate interior and
	Find and use the nth	in standard form.	decimal, and	graphs.		exterior angles in
	term of a linear	Understand SI prefixes in	percentage.	Understanding that	NP13 (2 weeks following	regular polygons.
	sequence.	engineering form	Know that probability	these are based on	on from SUM1)	Converting between 2D
	Relate sequences to		adds up to 1.	coordinates and how the	Advanced Proportion	and 3D units of
	graphs and real life	A9 (3 weeks) Real Life		lines are named.	and Rates of Change	measurement.
		<u>Graphs</u>	<u>A10 (2/4 weeks)</u>	Plotting by calculating	<u>Ratio problems</u> -	Naming Polyhedra.
	A8 (3 Weeks) Linear		Advanced Linear Graphs	points.	combining ratios, finding	2D representations of
	Inequalities	Conversion graphs, real	and Equations	Understand how to	parts, differences and	3D objects.
	Representing	life graphs, distance time		calculate the gradient of	wholes; mixing ratios	Planes of symmetry.
	inequalities on a number	graphs, finding averages	Drawing algebraic	a line.	with fractions (part/part	Plans and elevations.
	line.	and introduction to	graphs.	Know which part of the	and part/whole)	Loci.
	Finding values that	velocity time graphs.	Understanding that	equation of the line is		
Topic/Focus	satisfy an inequality.		these are based on	the gradient and which is	GM6 (2 weeks) Circles	
Topic/Focus	Setting up inequalities in		coordinates and how the	the y intercept.	Learning the parts of the	
	context.		lines are named.	Understand parallel and	circle.	
	Solving inequalities.		Plotting by calculating	perpendicular lines.	Finding circumference of	
	Representing regions on		points.		circles, perimeter of	
	graphs.		Understand how to	Solving simultaneous	sectors, area of both	
			calculate the gradient of	equations graphically,	circles and sectors.	
			a line.	and by elimination.	Answering questions in	
			Know which part of the		terms of pi.	
			equation of the line is	<u>GM4 (3 weeks)</u>	Identify and use circle	
			the gradient and which is	Congruency and	theorems.	
			the y intercept.	<u>Similarity</u>		
			Understand parallel and			
			perpendicular lines.	Congruency, tessellation,		
				transformations of		
			Solving simultaneous	shapes, similarity in		
			equations graphically,	shapes, conditions of		
			and by elimination.	congruent triangles		



Sequencing	Following on from A3/A4/A5 in year 8 on basic algebra, collecting terms and solving equations	Standard form naturally follows as a higher level of number calculations	Pupils have studied coordinates in A6. Real life graphs starts to look at how to plot graphs of conversions. Basic statistical diagrams in year 8. This moves them from discrete data to bivariate data and finding probability.	A6 follows on from the algebra taught in year 8. A10 builds upon A6	GM5 follows on from GM1&2 studied in year 7 and year 8 on naming 2D shapes and angles to a much more demanding topic of Pythagoras and trigonometry. this also builds on squares and roots. NP13 follows on from NP10 on proportion studied in year 8. GM6 continues the themes of shape from year 7 and year 8.	GM7 follows on from basic construction of shapes from lengths and angles in GM1 moving from 2D into 3D drawing.
Extended Learning	Complete Maths	Complete Maths	Complete Maths	Complete Maths	Complete Maths	Complete Maths
	Homework for revision	Homework for revision	Homework for revision	Homework for revision	Homework for revision	Homework for revision
	and extension	and extension	and extension	and extension	and extension	and extension
Formal Assessment	Topic Tests to identify	Topic Tests to identify	Topic Tests to identify	Topic Tests to identify	Topic Tests to identify	Topic Tests to identify
	knowledge retained and	knowledge retained and	knowledge retained and	knowledge retained and	knowledge retained and	knowledge retained
	inform retrieval starters	inform retrieval starters	inform retrieval starters	inform retrieval starters	inform retrieval starters	and inform retrieval
	for next term	for next term	for next term	for next term	for next term	starters for next term

The above grid shows the expected progression for pupils following the OAT curriculum. However, students will move through the curriculum at a rate that is appropriate for their learning.



/ear 10						
Qualification	Edexcel GCSE Mathematics	5				
	Number (2 usedue) N1	Algebra (2 weeks	Data (3 weeks following	Shape- Angles (3 weeks	Number- Fractions,	Shape- Perimeter, Area
	Foundation: Place Value	following on from AU1)	<u>on from AUT2) D1, D2 &amp;</u>	following on from SPR2)	Decimals, Percentages,	and Volume (6 weeks)
		<u>A1 &amp; A2</u>	<u>D3</u>	<u>S1 &amp; S4</u>	<b>Ratio and Proportion (6</b>	<u>S2 &amp; S6</u>
		Foundation:	Foundation:	Foundation:	weeks) N2 & N3	Foundation:
	Square, Cubes & Roots	Inequalities-	<u>Graphs-</u>	Use Pythagoras Theorem	Foundation:	Calculating Area and
	Laws of mores	Using the correct	Constructing and	to calculate missing sides	All operations with	Perimeter of:
	Calculations with	notation for inequalities	interpreting Line Graphs,	Use Trigonometry to find	fractions	Triangle
	Order of Operations	including composite	Time Series graphs, Stem	missing sides and angles	Converting between	Rectangles
	Order of Operations	inequalities and	and Leaf Diagrams, Pie		Fractions, Decimals and	Parallelograms
	docimal place and	representing them on a	Charts and Scatter	<u>Higher:</u>	Percentages	Trapeziums
	cignificant figuro	number line.	Graphs	Upper and Lower	Percentages- including	Circles (Circumference)
	Significant figure	Writing the integers that	Venn Diagrams-	Bounds	non-calculator and	Sectors
		satisfy composite	Understanding the set	Sine, Cosine and Tangent	calculator methods	Compound Shapes
	Factors HCE	inequalities.	notation of Venn	Graphs	Finding Percentage of an	<u>Volume:</u>
	Primes Product of	Solving Linear and	Diagrams	Calculating area using	Amount	Cube/Cuboid
	Primes, Product of	Composite Inequalities	Constructing and	the Sine and Cosine Rule	Increase and Decrease	Prism
Tonic	Lising Product of Primes	including those with	interpreting Venn	3D Pythagoras and	by a Percentage	Cone
Τορία	to find HCF & LCM	brackets and an	Diagrams	Trigonometry	Calculating Percentage	Sphere
		unknown on both sides	Tree Diagrams-	Transformations of	Change	Surface Area:
	Highor	Sequences-	Constructing and	Trigonometric Graphs	Calculating Simple and	Cube/Cuboid
	Rounding- integer	Understanding the	interpreting Frequency		Compound Interest	Prism
	decimal place and	different types of	and Probability Trees	Algebra- Graphs A3	Ratio & Proportion-	Pyramid
	significant figure	sequences	including independent	Foundation:	Ratio Notation	Cone
	Fstimation	Generating sequences	and dependant	Plotting and Interpreting	Simplifying Ratios	Sphere
	Primes Product of	using the term to term	Probability Trees	Co-ordinates including	Sharing an Amount into	
	Primes	rule and the Nth term.		finding the midpoint	a Ratio	Converting between
	Lising Product of Primes	Extending sequences	<u>Higher:</u>	Drawing and Recognising	Solving Problems with	Metric Units
	to find HCF & ICM	and finding missing	Constructing and	Graphs of y=n and x=n	Ratios	
	Laws of Indices including	numbers in the	Interpreting Cumulative	Constructing Linear	Using ratios to convert	Higher:
	negative and fractional	sequence	Frequency Graphs, Box	Graphs linking to y=mx+c	between units and	Calculating Area and
	indices	Finding a position in the	Plots, Frequency	rule.	enlargements	Perimeter of:
	Standard Form-	sequence using the Nth	Polygons and	Calculating Gradient, Y-	Unitary method to solve	Triangle
	Converting between	term rule	Histograms.	intercept and Equation	proportion problems	Rectangles
	converting between		Venn Diagrams-	of a Linear Graphs	Best Value for Money	Parallelograms



Standard Form and	Calculating the Nth Term	Understanding the set	Construct and interpret	Direct and Inverse	Trapeziums
Original Numbers.	of and arithmetic	notation of Venn	Real Life Graphs	Proportion-	Circles (Circumference)
Calculating in Standard	sequence and using it to	Diagrams	including Distance-Time	Identify Graphs and	Sectors
Form	determine if a number is	Constructing and	Graphs	Word Problems	Compound Shapes
Rational and Irrational	in the sequence	interpreting Venn			<u>Volume:</u>
Numbers		Diagrams	Higher:	<u>Higher</u> :	Cube/Cuboid
<u>Surds</u> - Simplifying,	<u>Higher:</u>	Using them to calculate	Constructing Linear	All operations with	Prism
Adding, Subtracting,	Sequences-	probability	Graphs linking to y=mx+c	fractions	Cone
Multiplying and Dividing	Understanding the	Tree Diagrams-	rule including Quadratic,	Recurring decimals to	Sphere
Multiplying Surds with	different types of	Constructing and	Cubic and Reciprocal	fractions	Frustrum
Brackets	sequences	interpreting Frequency	Graphs	Converting between	Surface Area:
Rationalising the	Generating sequences	and Probability Trees	Calculating Gradient, Y-	Fractions, Decimals and	Cube/Cuboid
Denominator	using the Nth term	including Independent	intercept and Equation	Percentages	Prism
	(linear and quadratic)	and Dependant	of a Linear Graphs and	Percentages- including	Pyramid
<u>Algebra (4 weeks plus 2</u>	Extending sequences	Probability Trees	Parallel and	non-calculator and	Cone
weeks in AUT2) A1 & A2	and finding missing	Using them to calculate	Perpendicular Lines	calculator methods	Sphere
Foundation:	numbers in the	probability	Construct and interpret	Finding Percentage of an	
Simplifying Algebraic	sequence		Real Life Graphs	Amount	Length of Arc
Expressions	Finding a position in the	Shape- Angles (3 weeks	including Distance-Time	Increase and Decrease	
Writing Expressions	sequence using the Nth	plus 3 weeks in SPR2) S1	Graphs and Graphing	by a Percentage	Converting between
Index Laws with Algebra	term rule.	<u>&amp; S4</u>	Rates of Change	Reverse Percentages	Metric Units including
Difference between	Calculating the Nth Term	Foundation:	Construct Graph of a	Calculating Percentage	Area and Volume
Expression, Equation,	of and arithmetic and	Properties of 2D shapes	Circle	Change	
Formula and Identity	quadratic sequences and	Calculate missing angles		Calculating Simple and	Congruence:
Substitution	using it to determine if a	in triangles,		Compound Interest	Understand and Prove
Expanding Single	number is in the	quadrilaterals and on		Growth and Decay	Congruence
Brackets including	sequence	parallel lines		Problems	Congruence of
Adding or Subtracting	Solve problems using	Calculate and		Direct and Inverse	Triangles
them.	Geometric sequences	understand Interior and		Proportion-	
Factorising Single	Using the Fibonacci	Exterior angles of regular		Identify Graphs and	<u>Similarity:</u>
Brackets	sequence to work out	and irregular polygons		Solve Word Problems	Use Ratio to Work out
Solving Equations	other terms algebraically	Use algebra to solve		Write and solve	Scale Factors
including Equations with		angle problems		equations to solve	Finding Missing Lengths
an Unknown on Both	Data (5 weeks plus 3	Use Pythagoras Theorem		proportion problems	on Similar Shapes
Sides and Brackets	weeks in SPR1) D1, D2 &	to calculate missing sides		including square and	Using the Link between
Form and Solve	<u>D3</u>	Use Trigonometry to find		cubic proportionality	Scale Factors for
Equations	Foundation:	missing sides and angles			Length, Area and



	Converting a Tally Chart		Recognise and sketch	Volume to Solve	1
Higher:	into a Frequency Table	Higher:	graphs of exponential	Problems	ĺ
Index Laws with Algebra	Calculating the mode,	Properties of Triangles	functions		ĺ
including Fractional and	range, median and mean	Calculate and	Non-Linear Graphs-		ĺ
Negative Indices	from a list, frequency	understand Interior and	Calculate the gradient of		ĺ
Expanding Single and	table and a group	Exterior angles of regular	the tangent at a point		ĺ
Double Brackets	frequency table.	and irregular polygons	Estimate the area under		ĺ
including Adding or	Comparing data using	Use Pythagoras Theorem	a graph using area of a		ĺ
Subtracting them.	the mean, mode and	to calculate missing sides	trapezium		ĺ
Factorising Single and	range.	Use Trigonometry to find	Translating graphs of		ĺ
Double Brackets	Sampling-	missing sides and angles	functions including		ĺ
Solving Linear Equations	Understand the need for		stretching and reflecting		ĺ
including Equations with	it and how random and				ĺ
an Unknown on Both	stratified sampling				ĺ
Sides and Brackets	works.				ĺ
Solving Quadratic	<u>Probability</u> -				ĺ
Equations by Factorising,	Calculate probability				ĺ
Completing the Square	from equally likely and				ĺ
and Using the Formula.	mutually exclusive				ĺ
Form and Solve	events including the				ĺ
Equations	probability of these				ĺ
Solving Inequalities and	events not happening				ĺ
Representing the Answer	Find the different and				ĺ
on a Number line	number of outcomes				ĺ
including Composite	using a listing strategy, a				ĺ
Inequalities	sample space and two-				ĺ
Simultaneous Equations-	way tables. Use these to				ĺ
Solve Linear and	find the probability of				ĺ
Quadratic Simultaneous	events happening.				ĺ
Equations including on a	Experimental				ĺ
graph (graphs given) and	<u>Probability</u> - understand,				ĺ
algebraically	interpret and work out				ĺ
Form and Solve Linear	expected results				l
Simultaneous Equations	Construct and interpret				l
	composite and				l
	comparative bar charts				1





including histograms with equal class widths Higher: Calculating the mode, range, median and mean from a frequency table and a group frequency table. Comparing data using the mean, mode and range. Sampling-Understand the need for it and how random and stratified sampling works. Probability-Calculate probability from equally likely and mutually exclusive events including the probability of these events not happening Find the different and number of outcomes using a listing strategy, a sample space and twoway tables. Use these to find the probability of events happening. Experimental Probability- understand, interpret and work out expected results Graphs- Constructing and interpret Time





		Series Graphs, Stem and Leaf Diagrams, Pie Charts and Scatter Graphs				
Sequencing	All maths is rooted in number so the start of the GCSE course begins with core number skills necessary to be successful in the exam. The topics from both units follow on from each other and this allows for more fluent teaching. Therefore, the pupils will have gained a deeper understanding of the topics. For example- Factorising quadratics leads onto solving quadratics by factorising. So linking these together allows pupils to see the links between the different areas of algebra.	The topics from all three units follow on from each other and this allows for more fluent teaching. Therefore, the pupils will have gained a deeper understanding of the topics. For example- in Table, Graph, and Diagram questions you will be asked to find the mode, median, range, mean and probability of events occurring. Therefore they need to learn about these before learning about the different tables, graphs and diagrams and be able to link these all together.	S4 follows on from S1. S4 builds on the shape knowledge learnt in the S1. This allows for more fluent teaching. Therefore, the pupils will have gained a deeper understanding of the topics. For example- in the higher unit the they learn how to use sine, cosine and tangent with right angle triangles moving onto non right angle triangles in S4		The topics from both units follow on from each other and this allows for more fluent teaching. Therefore, the pupils will have gained a deeper understanding of the topics. For example- you use fractions, decimals and percentages in probability questions.	The topics from both units follow on from each other and this allows for more fluent teaching. Therefore, the pupils will have gained a deeper understanding of the topics. For example- pupils need to know how to find the area of a circle and sectors before finding the area of compound shapes.
Extended Learning	Complete Maths Homework and Revision tasks linked to Topic Tests	Complete Maths Homework and Revision tasks linked to Topic Tests	Complete Maths Homework and Revision tasks linked to Topic Tests	Complete Maths Homework and Revision tasks linked to Topic Tests	Complete Maths Homework and Revision tasks linked to Topic Tests	Complete Maths Homework and Revision tasks linked to Topic Tests
Formal Assessment	Topic Tests using past paper questions	Topic Tests using past paper questions	Topic Tests using past paper questions	Topic Tests using past paper questions	Topic Tests using past paper questions. SUM1 Mock- Full exam series	Topic Tests using past paper questions



Year 11									
Qualification	Edexcel GCSE Mathematics								
	<u> 11X1- Higher Curriculum</u>	<u> 11X1- Higher Curriculum</u>	Curriculum will be	Revision based on Mock	Revision based on Mock				
	Percentage challenge.	Loci.	adapted according to	Results and Mock	Results and Mock				
	Compound measure,	Properties of 3D shapes.	results from November	Analysis Sheets	Analysis Sheets				
	speed distance and time.	Bearings.	Mock to met the needs						
	Laws of indices.	Scale Drawings.	of individual classes.						
	Vectors and translations.	Symmetry.							
	Transformations	Constructions.							
	(reflections, rotations,	Parallel lines.							
	enlargements and	Circle Theorems.							
	describing).								
	Direct and inverse	11X2/11Y1- Crossover							
	proportion.	<u>Curriculum</u>							
		Percentages							
	11X2/11Y1- Crossover	Reverse Percentages							
	<u>Curriculum</u>	Depreciation and Decay							
	Product of Primes- HCF	Fractions							
Торіс	and LCM	Ratio							
	Estimation	Index Laws							
	Upper and Lower	Factorisation							
	Bounds	Forming and Solving							
	Averages from tables	Equations							
	Scatter Graphs	Inequalities							
	Two Way Tables	Pythagoras							
	Frequency Trees	Trigonometry including							
	Time Series Graphs	non-right angles							
	Pie Charts	triangles							
	Probability Trees								
	Venn Diagrams	<u>11X3/11Y2</u>							
		Perimeter and Area of:							
	<u>11X3/11Y2</u>	Triangles							
	Standard Form	Rectangles and Squares							
	Fractions-	Parallelograms							
	Simplifying	Trapeziums							



ſ	Calculating with	Transformations								
	Fractions	vectors								
	Converting between									
	Fractions, Decimals and									
	Percentages	<u>11X4/11Y3</u>								
	Percentages	Time								
		Converting between								
	<u>11X4/11Y3</u>	units of time								
	Ordering and Comparing	Working out Intervals in								
	Positive and Negative	Time								
	Integers, Decimals and	Timetables								
	Fractions	Perimeter and Area of:								
	Calculations with	Squares								
	Positive and Negative	Rectangles								
	Integers, Decimals and	Compound Shapes								
	Fractions	Triangles								
	Multiples and Factors	Volume								
	Prime Numbers									
	Rounding									
	Percentage of an									
	Amount									
	Money problems									
	Year 11 follow a bespoke	Year 11 follow a bespoke								
Sequencing	curriculum to capture	curriculum to capture	curriculum to capture	curriculum to capture	curriculum to capture					
	the needs within the	the needs within the								
Extended Learning	class	class	class	class	class					
	Complete Maths	Complete Maths	Complete Maths	Complete Maths	Complete Maths					
	Homework and Revision	Homework and Revision	Homework and Revision	Homework and Revision	Homework and Revision					
	tasks linked to Topic	tasks linked to Topic	tasks linked to Topic	tasks based on Mock	tasks based on Mock					
	Tests	Tests	Tests	results	results					
		November Mock- Full		April Mock- Full exam						
Formal Assessment		exam series		series	May/June Formal GCSEs					
Post Year 11										
Further Education/training in:				Employment in: Anything and everything						