Autumn Term			
Υ7	Topic Title: Autumn Unit 1- Number Sense Big Questions: How do I apply place value knowledge to integers, decimals and measures? How do I use directed numbers? How do I apply rules of BIDMAS?	Topic Title: Autumn Unit 2 - Expressions, functions and formulae Big Questions: How do I use input and output with function machines? How do I use correct algebraic notation? How do I collect and simplify expressions? How do I simplify expressions with multiplication/division? How do I Expand brackets with algebra?	Topic Title: Autumn Unit 3 - Measures Big Questions: How do I use time correctly? How do I use a ruler correctly? How do I convert between standard units?
Links to NC	Use the four operations, including formal written methods, applied to integers and decimals. Understand and use directed numbers. Use conventional notation for the priority of operations, including brackets. Use the symbols =, $\neq$ , >, <, $\leq$ , $\geq$ , $\approx$	Use and interpret algebraic notation. Understand and use the concepts and vocabulary of expressions, terms and factors. Simplify and manipulate algebraic expressions to maintain equivalence by collecting like terms and multiplying a single term over a bracket.	Understand and use place value for integers and decimals. Round numbers and measures to an appropriate degree of accuracy, leading to estimating answers. Change freely between related standard units (for example, time, length, area, volume, capacity, and mass)
Assessments	Baseline test CFU Number Sense	CFU Expressions, functions and formulae	CFU Measures

Spring Term			
Y7	Topic Title:	Topic Title:	Topic Title:
	Spring Unit 4 – 2D shapes	Spring Unit 5 – Perimeter and Area	Spring Unit 6 – Coordinates
	Big Questions:	<b>Big Questions:</b>	<b>Big Questions:</b>
	How do I identify and describe 2d	How do I find the perimeter	What are do graphs of
	shapes?	shapes?	equations and functions look
		How do I use and apply the area	like?
		formulae for different shapes?	
		How do I find the area of	
		composite shapes?	
Links to NC	use language and properties precisely to	Derive and apply formulae to	work with coordinates in all
	analyse numbers, algebraic expressions,	calculate and solve problems	four quadrants
	2-D and 3-D shapes, probability and	involving: perimeter and	
	statistics.	area of triangles, parallelograms,	
		trapezia, volume of cuboids	
		(including cubes) and	
		other prisms (including cylinders)	
Assessments	End of Autumn Term Assessment	CFU Perimeter and Area	CFU Coordinates
	CFU 2D shapes		

Spring Term			
Y7	Topic Title:	Topic Title:	Topic Title:
	Spring Unit 7 – Factors, Multiples and Primes	Spring Unit 8 – Fractions	Spring Unit 9 – Fractions
	Big Questions:	<b>Big Questions:</b>	<b>Big Questions:</b>
	What are prime numbers?	How do I use the four operations with	How do I simplify and manipulate
	How do I use and apply multiples?	fractions?	algebraic expressions to maintain
	How do I use and apply Factors?		equivalence?
	How do I use factors in HCF problems?		
	How do I use multiples in LCM problems?		
Links to	Use the concepts and vocabulary of prime	Use the four operations, including formal	Algebraic simplification and
NC	numbers, factors (divisors), multiples,	written methods, applied to decimals,	manipulation of algebraic fractions.
	common factors, common multiples, highest	proper and improper fractions, and mixed	
	common factor and lowest common	numbers.	
	multiple	Four operations with fractions.	
		Define a percentage as 'number of parts	
	Recognise and use relationships between	per hundred'.	
	operations, including inverse operations	Interpret percentages and percentage	
		change as a fraction of decimal and	
		interpret these multiplicatively.	
		Express one quantity as a percentage of	
		another	
		Compare two quantities using percentages.	
		Find percentages of an amount with and	
		without a calculator.	
Assessm	CFU Factors, Multiples and Primes	CFU Frac	tions
ents			

Summer Term			
Υ7	Topic Title: Summer Unit 10 – Angles Big Questions: What are the correct conventions, notation and terms for geometry? How do I recognise the correct conventions, notation and terms in geometry? How do I use angle properties to calculate missing angles?	Topic Title: Summer Unit 11 – Handling data and Statistical diagrams Big Questions: How can calculate and interpret measure of central tendency and spread? How do I calculate and interpret measures of tendency? How do I construct and interpret appropriate tables, charts and diagrams? How do I interpret and show data?	Topic Title: Summer Unit 12 – Proportion <mark>Big Questions:</mark> When do I use the unitary method?
Links to NC	Describe, sketch and draw using conventional terms and notations: points, lines, parallel lines, perpendicular lines, right angles. Apply the properties of angles at a point, angles at a point on a straight line.	Describe, interpret, and compare observed distributions of a single variable through data sets from univariate empirical distributions through appropriate measures of central tendency (mean, mode and median) and spread (range) Construct and interpret appropriate tables, charts, and diagrams, including frequency tables, bar charts and pictograms for categorical data. How do I use Frequency tables, bar charts and pictograms?	Solve problems involving direct and inverse proportion, including graphical and algebraic representations
Assessments	CFU Angles	CFU Data	CFU Proportion

Summer Term			
Υ7	Topic Title: Summer Unit 13 – Fractions, Decimals and Percentages Big Questions: How do I use the four operations with fractions? How do I use multiplying fractions? How do change to a percentage from fraction and decimal?	Topic Title: Summer Unit 14 – Probability Big Questions: How do I write the probability of an event on a probability scale? How do I find the probability of an event happening? What are combined events and probability diagrams?	
Links to NC	Use the four operations, including formal written methods, applied to decimals, proper and improper fractions, and mixed numbers. Four operations with fractions. Define a percentage as 'number of parts per hundred'.	Record, describe and analyse the frequency of outcomes of simple probability experiments involving randomness, fairness and equally likely outcomes, using appropriate language and the 0-1 probability scale.	
	Interpret percentages and percentage change as a fraction of decimal and interpret these multiplicatively. Express one quantity as a percentage of another Compare two quantities using percentages. Find percentages of an amount with and without a calculator.	Calculate probabilities in simple cases.	
Assessments	CFU FDP	CFU Probability	