			Autumn Term			
Y7	Topic Title: Four operations with rounding and approximation Big Questions: How do I apply place value knowledge to integers, decimals, and measures? How do I use directed numbers?	Topic Title: Four operations with rounding and approximation. Order of operations. Big Questions: How do I recognise and use mathematical symbols? How do I apply rules of BIDMAS?	Topic Title: Types of number Big Questions: How do I use and apply Factors, multiples and index notation and law?	Topic Title: Algebra Big Questions: 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?? How do I identify, continue and generate terms from a term to terr rule for a sequence?		
Links to NC	Understand and use place value for integers and decimals. Use the four operations, including formal written methods, applied to integers and decimals. Understand and use directed numbers.	 Round numbers and measures to an appropriate degree of accuracy, leading to estimating answers. Recognise and use relationships between operations, including inverse operations. Use the symbols =, ≠, >, <, ≤, ≥, ≈ Use conventional notation for the priority of operations, including brackets. 	Use the concepts and vocabulary of prime numbers, factors (divisors), multiples, common factors, common multiples, highest common factor and lowest common multiple	Use and interpret algebraic notation. Understand and use the concepts and vocabulary of expressions, equations, inequalities, terms and factors.	Simplify and manipulate algebraic expressions to maintain equivalence by collecting like terms and multiplying a single term over a bracket.	Generate terms of a sequence from a term-to- term rule Introduce position-to-term rules for simple arithmetic sequences, linked to multiplication tables
Assessments	Base Line Assessment Four operations with rounding and approximation.	Order of operations.	Factors, multiples and primes.	Algebraic notation. Collecting like term. Simplifying expressions. Expanding brackets. Sequences.		

	Autumn Term				
Y7	Topic Title:	Topic Title:	Topic Title:		
	Fractions	Unit conversions	Geometric notation properties of 2D and		
	Big Questions:	Big Questions:	3D shapes		
	How do I use the four operations with	How do I convert between standard units?	Big Questions:		
	fractions?		How can I use geometric notation?		
			How do I recognise and describe 2d and		
			3d shapes?		
Links to NC	Use the four operations, including formal	Begin to reason deductively about proportionality.	Describe, sketch and draw using		
	proper and improper fractions, and mixed	Change freely between related standard units (for	conventional terms and notations.		
	numbers	example time length area volume canacity and	Describe the properties of 2D and 3D		
		mass)	shapes.		
Assessments	Four operations with fractions.	Units of measurements, converting between metric	Properties of 2D and 3D shapes and		
		units.	labelling conventions. End of term		
			assessment.		

	Spring Term				
Y7	Topic Title:	Topic Title:	Topic Title:	Topic Title:	Topic Title:
	Geometry – Perimeter	Geometry – Area	Percentages	Probability	Coordinates
	Big Questions:	Big Questions:	Big Questions:	Big Questions:	Big Questions:
	How do I find the	How do I use and apply	How do change to a percentage	How do I write the probability	What are the Four
	perimeter shapes?	the area formulae for	from fractions and decimals?	of an event on a probability	quadrants on cartesian
		different shapes?	How do I define Percentages?	scale?	plane?
			How do I use arithmetic to help solve	How do I find the probability of	
			percentage of amounts problems?	an event happening?	
				How do I read a Sample Space	
				diagram?	
Links to NC	Derive and apply formul	ae to calculate and solve	Define a percentage as 'number of	Record, describe and analyse	Work with coordinate grid
	problems involving perimeter and area of triangles, parallelograms, and trapezia.		parts per hundred'.	the frequency of outcomes of	in all 4 quadrants
				simple probability experiments	
			Interpret percentages and	involving randomness, fairness	
			percentage change as a fraction of	and equally likely outcomes,	
			decimal and interpret these	using appropriate language and	
			multiplicatively.	the 0-1 probability scale.	
			Express one quantity as a	Calculate probabilities in simple	
			percentage of another	cases.	
			Compare two quantities using	Complete and use sample space	
			percentages.		
			Find percentages of an amount with and without a calculator		
Assessments	Perimeter and area.		FDP, conversion, find a percentage	Probability scale and calculating	Using the cartesian grid in
			of an amount with and without a calculator.	probabilities of events.	all four quadrants. End of spring term assessment.

	Summer Term					
Y7	Topic Title: Geometry- angles Big Questions: How do I use angle properties to calculate missing angles?	Topic Title: Statistics Big Questions: How do I calculate and interpret measure of central tendency and spread? How do I construct and interpret appropriate tables, charts, and diagrams?	Topic Title: Algebra - formula and linear equations Big Questions: How do I substitute into formula? How do I solve linear equations?	Topic Title: Transformation Big Questions: How do I perform transformations and describe transformations?	Topic Title: Circles investigation Big Questions: How do I identify and describe properties of a circle? How do I link pi to a circle?	
Links to NC	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?	Substitute numerical values into formulae and expressions, including scientific formulae. Use algebraic methods to solve linear equations in one variable.	Identify properties of, and describe the results of, translations, rotations and reflections applied to given figures.	Derive and illustrate properties of a circle.	
Assessments	Angle properties and calculating missing angles.	Calculating averages and interpreting/constructing graphs.	Algebra - formula and linear equations.	Translations, rotations and reflections of 2D shapes.	Calculating the circumference and area of a circle.	