Year 8	Big Questions	Small Questions	
Year 8	Number	 Retrieval practice to revise Year 7 small questions spend time revisiting directed number work Round numbers to powers of 10, 1 and 2 significant figures and decimal places Estimate the answer to a calculation Understand error interval notation Calculate using the order of operations Calculate with money Recognise triangular numbers Work with squares and square roots Work with cubes and cube roots Revision of factors and multiples Calculating HCF and LCM Use prime factor decompositions to find HCF and LCM 	
	Directed Number	 Add and subtract direct numbers Multiply and divide directed numbers Use a calculator for directed number calculations 	
n 1	MINI TEST		
Autumn	FDP	 Retrieval practice to revise Year 7 small questions Convert fluently between fractions, decimals and percentage Calculate key fractions, decimals and percentages without a calculator Calculate fractions, decimals and percentages with a calculator Calculate percentage increases and decreases Calculate percentage increases and decreases using multipliers Express one number as a fraction or percentage of another without a calculator Express one number as a fraction or percentage of another with a calculator 	
-	MINI TEST		
	Revision One Week	Preparation for half term assessment	
-	HALF TERM ASSESSMENT		

Year 8	Big Questions	Small Questions	
iear o	Algebra	 Retrieval practice to revise Year 7 small questions Revise simplifying expressions Form algebraic expressions Multiply out a single bracket Multiply out and simplify two single brackets (both addition and subtraction) Factorise into a single bracket Substitute positive and negative values into expressions and formulae Solve one and two stage equations Solve equations including brackets Form and solve equations with brackets Solve equations with unknowns on both sides Draw and read inequalities on a number line Understand and solve simple inequalities Form and solve inequalities 	
	MINI TEST		
Autumn 2	Area and Perimeter	 Retrieval practice to revise Year 7 small questions Convert between metric units for area Calculate the area of triangles and use area to find missing lengths Calculate the area and perimeter of compound shapes involving rectangles and triangles Calculate the area of a trapezium Find missing lengths from area problems Calculate the circumference and area of a circle Calculate the area and perimeter of parts of circles (half, quarter, three quarters) 	
		MINI TEST	
	Graphs	 Retrieval practice to revise Year 7 small questions Coordinates in four quadrants Identify and draw lines that are parallel to the axes Draw linear graphs Find the midpoint of a line Calculate the gradient of a linear graph Understand the effect of m and c Calculate the equation of a line from the graph Investigate parallel lines Simple quadratic graphs Distance-time graphs 	
	Revision One Week	Preparation for half term assessment	
		HALF TERM ASSESSMENT	

Year 8	Big Questions	Small Questions	
	Calculations (Mental and Written)	•	
	MINI TEST		
Spring 1	Fractions	 Retrieval practice to revise Year 7 small questions Add and subtract fractions with different denominators Add and subtract mixed numbers Represent multiplication of fractions Multiply a fraction by an integer Multiply fractions Divide an integer by a fraction Divide fractions Understand and use the reciprocal 	
	Revision One Week	Preparation for half term assessment	
	MINI TEST		
HALF TERM ASSESSMENT		HALF TERM ASSESSMENT	

Year 8	Big Questions	Small Questions	
	Geometric Reasoning	Construct triangles using SSS, SAS and ASA	
		Understand and use labelling conventions	
		 Calculate missing angles using basic angle facts from year 7 	
		 Calculate angles in triangles 	
		Calculate the exterior angle in a triangle	
		Calculate the angle sum of regular polygons	
		Calculate interior and exterior angles in regular polygons	
		Calculate angles in parallel lines	
	MINI TEST		
2 2		 Retrieval practice to revise Year 7 small questions 	
Spring	Probability	Calculate the probability of an event happening or not happening	
pr		Construct and use sample space diagrams	
S		Construct and use two way tables for probability	
	Probability	Construct and use Venn diagrams for probability	
		Use the product rule	
		Find number of arrangements	
		Construct and read frequency trees	
	MINI TEST		
	Revision One Week	Preparation for half term assessment	
	HALF TERM ASSESSMENT		

Year 8	Big Questions	Small Questions	
	Volume and surface area	 Retrieval practice to revise Year 7 small questions Volume of prisms (including cylinders) Surface area of triangular prisms 	
		Surface area of a cylinder	
		MINI TEST	
Summer 1	Statistics	 Calculate mean, mode, median and range from a set data Draw and interpret charts covered in year 7 Interpret pie charts Calculate angles and draw pie charts (accurately) Use two-way tables. Calculate the mean from a frequency table. (not grouped) Find the modal group of a grouped frequency table Draw and interpret stem and leaf diagrams with different stem values. Find mode, median and range from stem and leaf diagrams. Compare two sets of data using more than one average and range Compare two sets of data using the shape of a line graph or pie charts. Draw line graphs to compare two sets of data. Choose the most appropriate average to use. Draw scatter graphs. Describe types of correlation 	
Sur		MINI TEST	
S	Transformations	Revisit reflections in horizontal, vertical and diagonal mirror lines Revisit rotations Revisit translations Revisit enlargements Recognise and carry out reflections in diagonal mirror lines Rotate a shape about a point on the shape Rotate a shape about a point not on a shape Describe rotations Compare rotations and reflections of shapes Translate shapes using vectors Describe translations using vectors Enlarge shapes using a fractional scale factor (not using a centre of enlargement) Enlarge shapes using whole number scale factor from a centre of enlargement	
	Revision One Week	Preparation for half term assessment	
	HALF TERM ASSESSMENT		

Year 8	Big Questions	Small Questions
Summer 2	Ratio and Proportion	 Retrieval practice to revise Year 7 small questions Understand the meaning and representation of ratio Understand and use ratio notation Express ratios in the form 1:n or n:1 Divide a value into a given ratio Express ratios in their simplest integer form
		Compare ratios and related fractions MINI TEST
	Sequences	 Retrieval practice to revise Year 7 small questions Generate sequences given a rule in words Generate sequences given a simple algebraic rule (Linear) Generate sequences given a complex algebraic rule (Quadratic) Find the rule for the nth term of a linear sequence END OF YEAR ASSESSMENT
	Pythagoras	•