

Year 7	Big Questions	Small Questions	
Autumn 1	Number	<ul style="list-style-type: none"> • Understand and recognise the place value of any number in an integer up to one billion • Understand place value for decimals • Understand and write integers up to one billion in words and figures • Work out intervals on a number line • Position integers and decimals on a number line • Round integers to the nearest power of ten, whole number and 1 decimal place • Round a number to 1 significant figure • Compare two numbers using inequality signs • Order a list of integers • Write numbers as powers of ten • Investigate negative powers of ten • 	
	Directed number	<ul style="list-style-type: none"> • Understand and use representations of directed number • Order directed number • Perform calculations that cross zero • Add and subtract direct numbers • Multiply and divide directed numbers • Use a calculator for directed number calculations 	
	MINI TEST		
	Algebra	<ul style="list-style-type: none"> • Use letters to represent unknowns • Simplifying expressions by addition and subtraction • Collecting like terms to simplify more complex expressions • Forming and simplifying expressions for perimeter • Use function machines for one step equations • Use function machines for two step equations • Solve one step linear equations • Solve simple two step linear equations 	
	MINI TEST		
	Revision One Week	Preparation for half term assessment	
HALF TERM ASSESSMENT			

<u>Year 7</u>	Big Questions	Small Questions
Autumn 2	Calculations (Mental and Written methods)	•
	MINI TEST	
	FDP	<ul style="list-style-type: none"> • Convert between fractions and decimals (tenths, hundredths, halves, quarters, eighths and fifths) • Understand the meaning of percentage using a hundred square • Convert fluently between fractions, decimals and percentages • Represent any fraction as a diagram • Represent fractions on a number line • Identify and use simple equivalent fractions • Find a fraction of an amount • Use a given fraction to find the whole and/or other fractions • Find the percentage of a given amount using mental methods • Find a percentage of a given amount using a calculator
	MINI TEST	
	Graphs	<ul style="list-style-type: none"> • Coordinates in the first quadrant • Coordinates in all four quadrants • Draw simple linear graphs of the form $y = x + a$ • Draw simple linear graphs of the form $y = kx$ • Explore the gradient of simple linear graphs • Conversion graphs
	Revision One Week	• Preparation for half term assessment
HALF TERM ASSESSMENT		

Year 7	Big Questions	Small Questions
Spring 1	Area and Perimeter	<ul style="list-style-type: none"> • Understand the metric units of measurement • Convert between metric units of measure • Calculate with metric units of measure • Calculate the perimeter of regular shapes • Calculate the perimeter of compound shapes involving rectangles • Calculate the area of squares and rectangles • Calculate the area of compound shapes involving rectangles • Calculate the area of a triangle • Calculate the area of a parallelogram
	MINI TEST	
	Geometric Reasoning	<ul style="list-style-type: none"> • Identify angles • Understand and use letter and labelling conventions • Properties of shapes • Draw and measure angles • Recognise parallel and perpendicular lines • Angles on a straight line • Angles round a point • Vertically opposite angles • Recognise different types of triangles • Angles in triangles • Angles in isosceles and equilateral triangles • Angles in quadrilaterals
	Revision One Week	<ul style="list-style-type: none"> • Preparation for half term assessment
	MINI TEST	
HALF TERM ASSESSMENT		

<u>Year 7</u>	Big Questions	Small Questions
Spring 2	Fractions	<ul style="list-style-type: none"> • Understand representations of fractions • Understand and use equivalent fractions • Convert between mixed numbers and fractions • Add and subtract fractions with the same denominator • Add and subtract fractions where denominators share a simple common multiple
	MINI TEST	
	Probability	<ul style="list-style-type: none"> • Identify and represent sets • Draw and interpret Venn diagrams • Know and use the vocabulary of probability • Understand and use the probability scale • Calculate the probability of a single event • Know that the sum of probabilities of all possible outcomes is 1
	MINI TEST	
	Revision One Week	<ul style="list-style-type: none"> • Preparation for half term assessment
HALF TERM ASSESSMENT		

Year 7	Big Questions	Small Questions
Summer 1	Ratio and Proportion	<ul style="list-style-type: none"> • Use the language of ratio • Convert between fractions and ratio • Use the ratio symbol • Split and amount in a given ratio • Find one part of a ratio • Proportion • Use scale factors • Solve ratio and proportion problems
	MINI TEST	
	Statistics	<ul style="list-style-type: none"> • Find the mode of a set of data, numerical and non-numerical. • Find the median of a set of data (odd and even number of values). • Find the range of a set of data. • Find the mean of a set of data • Read and draw pictograms, bar charts and bar-line charts. • Draw multiple and composite bar charts • Read and construct tally charts and frequency tables. • Find the mode and range from a chart or table. • Draw and interpret simple pie charts (circles split into sections) • Read and construct grouped tally charts and frequency tables. • Read and construct grouped bar charts for discrete and continuous data. • Find the modal class from a bar chart or frequency table.
	MINI TEST	
	Transformations	<ul style="list-style-type: none"> • Recognise line and rotational symmetry • Identify all the symmetries of 2D shapes • Recognise and carry out reflections in horizontal and vertical mirror lines • Identify vertical and horizontal mirror lines • Rotate a shape about a point on the shape • Rotate a shape about a point not on a shape • Translate shapes using words • Describe translations using words • Enlarge shape using whole number scale factors (not using a centre of enlargement)
	Revision One Week	<ul style="list-style-type: none"> • Preparation for half term assessment
HALF TERM ASSESSMENT		

Year 7	Big Questions	Small Questions
Summer 2	Volume and surface area	<ul style="list-style-type: none"> • Properties of 3D shapes • Volume of solids by counting cubes • Volume of a cuboid • Nets of shapes • Surface area of cubes and cuboids
	MINI TEST	
	Sequences	<ul style="list-style-type: none"> • Describe and continue a sequence given diagrammatically • Predict and check the next term of a sequence • Recognise sequences in tabular and graphical forms • Recognise the difference between linear and non linear sequences • Continue numerical sequences • Explain the term to term rule of a numerical sequence in words • Find missing numbers within sequences •
	END OF YEAR ASSESSMENT	
Factors, multiple and primes Inequalities	<ul style="list-style-type: none"> • Recognise triangular numbers • Work with squares and square roots • Work with cubes and cube roots • Factors and multiples • Calculating HCF and LCM • Use of inequality signs 	