

Autumn 1 Y6	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
<b>DAILY Practise</b>							
<b>Tables</b>	All tables	All tables	All tables	All tables	All tables	All tables	All tables
<b>DAILY Practise</b>	Number bond fluency	Number bond fluency	Number bond fluency	Number bond fluency	Number bond fluency	Number bond fluency	Number bond fluency
	Common FDP equivalents	Common FDP equivalents	Common FDP equivalents	Common FDP equivalents	Common FDP equivalents	Common FDP equivalents	Common FDP equivalents
	Reading large numbers	Reading large numbers	Reading large numbers	Reading large numbers	24 hour clock	24 hour clock	24 hour clock
	Shape recall names	Shape recall names	Shape recall names	Shape recall names	Shape recall names	Shape recall names	Shape recall names
<b>TOPIC</b>	<b>Number and Place Value</b>						
	Recall counting in multiples of 6, 7, 8, 9, 25 and 50 and 1000	Order and compare numbers to at least 10000000 -- know the value of each digit	Recall Roman Numerals to 1000 - recognise years				
	Read and write numbers to 10000000	Count forward and backwards in powers of 10	Negative numbers in context calculating intervals across 0.				
	Place value of digits in numbers to 10000000 inc. to 3 dp	Reasoning involving all of the above and applications eg. Newspaper headlines	Reasoning involving all of the above				
	Round any number to a required degree of accuracy			Recall rounding			
<b>TOPIC</b>	<b>4 operations</b>						
			Formal methods addition and subtraction	Formal methods addition and subtraction			
			Use efficient methods of above eg. subtracting 11999	Perform mental calculations using mixed operations and large numbers			
			Multi step problems including using metric measures.	Multi step problems			
				Use inverse to solve missing number problems			
				Reasoning involving all of the above			
	<b>Measurement</b>						
	Know own height in m						
	<b>Geometry - properties Space</b>						
					Properties and classification of shapes - 2D and 3D, inc. shape names and when in different orientations. Secure understanding of parallel and perpendicular lines	Recall angles in 1/2 and 1/4 turns. Learn that angles round a point add up to 360 degrees. Angles on a st line add up to 180 degrees	
					Name parts of a circle - radius, diameter and circumference. Apply to radius and diameter problems.	Learn that the angles inside a triangle add up to 180 degrees. Find missing angles. Develop mental strategies.	
					Accurately draw 2D shapes - confident use of a protractor. Draw and measure angles.	Learn that the angles inside a quadrilateral add up to 360 degrees. Find missing angles. Develop mental strategies.	
					Nets - identify and construct nets for common 3D shapes	Include algebra* missing values, using the inverse	
					Distinguish between regular and irregular polygons		

Autumn 2 Y6	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
DAILY Practise						
DAILY Practise	TT practise and intervention - Mult and Div facts	TT practise and intervention - Mult and Div facts	TT practise and intervention - Mult and Div facts	TT practise and intervention - Mult and Div facts	TT practise and intervention - Mult and Div facts	TT practise and intervention - Mult and Div facts
	Efficient methods of adding and subtracting - 999 (-1000 +1)	Number bond fluency	long multiplication	long multiplication	long multiplication	long multiplication
	Shape recall names	Shape recall names	Short division - 4 digits by 1 digit	Short division - 4 digits by 1 digit	Short division - 4 digits by 1 digit	Short division - 4 digits by 1 digit
	Telling the time	Telling the time	Telling the time	Telling the time	Telling the time	Telling the time
	inverse operations using missing number boxes. E.g. [ ] + 32 = 56					
	Number and Place Value					
	<b>4 operations</b>					
	Multiples and factors, common factors and common multiples of numbers.	Formal methods of long multiplication - 4 digits by multidigits	Long division 4 digit by 2 digit.			
	Know prime numbers, prime factors and composites. Develop strategies to identify prime numbers.	Short division - 4 digits by 1 digit, learning how to interpret remainders or rounding to nearest...	Multiply and divide numbers with decimals by 10,100 and 1000 - <b>apply to conversions (SEE Spring 1)</b>			
	Recognise square and cubed numbers - using the notation	<b>Recall place value of decimals</b>	BIDMAS - order of operations			
	Formal methods of long multiplication - 4 digits by 2 digits	Multiply and divide numbers with decimals by 10,100 and 1000 - <b>apply to conversions (SEE Spring 1)</b>				
	Reasoning involving all of the above	Reasoning involving all of the above				
			<b>Recall common equivalent decimal and vulgar fractions. (1/4=0.25)</b>	<b>Add and subtract fractions with same denominator</b>	Divide proper fractions by whole numbers	
			Compare and order vulgar fractions, where the denominators are all multiples of same number.	Add and subtract fractions with different denominators, <b>recalling common factors/multiples</b>	Calculate fractions of whole numbers.	
			Extend equivalent fractions, <b>recalling common factors/multiples</b>	Mixed numbers and improper fractions	Associate fractions with division, converting fractions to decimals. E.g. $3/8 = 0.375$ <b>recall short division, when interpreting remainders</b>	
				Multiply proper fractions and mixed numbers by whole numbers.	<b>Recall read, write, order and compare numbers up to 3 dp</b>	
				Multiply pairs of proper fractions, writing answers in the simplest form	Solve problems involving numbers up to 3dp. E.g. 9-1.15	

Spring 1 Y6	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
<b>DAILY Practise</b>						
<b>Tables</b>	TT practise and intervention - Mult and Div facts	TT practise and intervention - Mult and Div facts	TT practise and intervention - Mult and Div facts	TT practise and intervention - Mult and Div facts	TT practise and intervention - Mult and Div facts	TT practise and intervention - Mult and Div facts
<b>DAILY Practise</b>	Roman Numerals	Roman Numerals	Roman Numerals	Roman Numerals	Roman Numerals	Roman Numerals
	Revisit addition and subtraction of fractions	Revisit addition and subtraction of fractions	Visual fraction problems	Visual fraction problems	Visual fractions	Visual fractions
	Efficient methods of mult	Efficient methods of mult	Efficient methods of mult	Efficient methods of mult	Efficient methods of mult	Efficient methods of mult
	Reading large numbers	Reading large numbers	Reading large numbers	Reading large numbers	Reading large numbers	Reading large numbers
<b>TOPIC</b>	<b>Multiplication and Division</b>					
	Recall Prime numbers and factors					
	Recall square and cube numbers and the notation					
	Recall long division					
	Solve multiplication and division problems including scaling by simple fractions and problems involving simple rates. E.g. $20 \times 8 = 160$ , $20 \times 4 = ??$ ( $1/2$ as much)					
	<b>Fractions Decimals and Percentages</b>					
	Recall rounding, addition and subtraction of decimals to 3dp	Learn common fractions decimals and percentages e.g. $1/4 = 0.25 = 25\%$ . Derive that $1/20 = 5/100$ so this is 5%				
	Multiply 1 digit numbers by decimals up to 2dp.	Recall understanding of division to convert fractions to decimals, then apply to %.				
		Calculate % of whole numbers.				
		Calculate % reductions from whole numbers.				
	<b>Measurement</b>					
			Convert between different units on measure, km and m, cm and mm, g and kg, litre and ml, recall multiplying and dividing by 10/100/1000 and place value up to 3dp.	Recall perimeter. Perimeter using conversions of units and decimals for practise.	Recall area of quadrilaterals, triangles and compound shapes.	
			Convert miles to KM	Calculate area of quadrilaterals knowing formulaic representation (LxW) (BxH) using correct notation	Calculate volume of cubes, cuboids and triangular prisms (ex) using the correct notation.	
			Solve reasoning problems using all of the above	Calculate area of triangles knowing formulaic representation (LxW / 2) using correct notation.	Use inverse to find missing values when calculating area and perimeter.	
				Calculate the area and perimeter of compound shapes.	Extend above to find surface areas - link to NETS *challenge	
				when given unknown rectangles to deduce related		
	<b>Algebra</b>					
				Use simple formulae	Use simple formulae	
				problem algebraically	problem algebraically	

Spring 2 Y5	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
<b>DAILY Practise</b>						
<b>Tables</b>	TT practise and intervention - Mult and Div facts	TT practise and intervention - Mult and Div facts	TT practise and intervention - Mult and Div facts	TT practise and intervention - Mult and Div facts	TT practise and intervention - Mult and Div facts	
<b>DAILY Practise</b>	Roman Numerals	Recall names of 3d shapes	Recall angle facts - turns	Recall angle facts - turns	reading scales	
	Recall use of factors, multiples, squares and cubes	Telling the time problems	Acute/reflex/obtuse	Acute/reflex/obtuse	Fractions of amounts	
	Recall 12 and 24 hour clock	Factors and multiples	Using a protractor	Using a protractor	Factors and multiples	
	Reading large numbers	Recognising NETS				
<b>TOPIC</b>	<b>Multiplication and Division and fractions, dec and percentages</b>					
	Recall long multiplication					
	Recall short division, interpreting remainders as decimals.					
	Recall multiplying whole numbers by decimals up to 2dp					
	Recall long division					
	Recall multiplying and dividing number by powers of 10					
	Recall conversions between fractions, decimals and percentages					
	Recall fractions and percentages of amounts					
	<b>Measurement</b>					
		Recall 12 and 24 hour clock, both analogue and digital.				
		Solve problems including converting between units of time. Inc. months of year				
	<b>Geometry - position and direction</b>					
			their properties	Recall Coordinates in first quadrant		
			Measure and draw angles	quadrants		
			Simple constructions of triangles	polygon		
				Reflections and Translations		
			add up to 180 degrees. Find missing degrees			
			degrees			
	<b>Geometry - properties of space</b>					
				Recall properties of all 2D shapes		
	<b>Statistics</b>					
		Interpret simple timetables			accurately interpreting scales	
					represents different quantities	
					Solve problems using the above.	
					charts accurately	
					Calculate mean	
	<b>Algebra</b>					
		Generate and describe linear sequences	Use simple formulae			
		equation with two unknowns.	algebraically			
		two variables.				
	<b>Ratio and Proportion</b>					
				reductions		

Summer 1 Y6	Week 1	Week 2	Week 3	Week 4	Week 5		
DAILY Practise							
Tables							
DAILY Practise	Read large numbers up to 1000000	<p><b>SATS revision</b> based on misconceptions unique to each academy</p>	<p><b>SATS revision</b> based on misconceptions unique to each academy</p>				
	Prime and square numbers						
	factors and multiples						
	Recall multiplying decimals by powers of 10,100						
TOPIC	Number and Place Value						
	<b>Multiplication and Division</b>						
	Recall multiplication involving decimals						
	Recall long division						
	<b>Fractions Decimals and Percentages</b>						
	Recall of mixed numbers and improper fractions						
	Revision of add and subtract fractions with different denominators and mixed numbers						
	Recall multiply proper fractions and mixed numbers by whole numbers.						
	<b>Measurement</b>						
	<b>Geometry - properties Space</b>						
	<b>Geometry - Position and direction</b>						
	<b>Statistics</b>						
	recall properties of shape						
	<b>Ratio and proportion</b>						
	sharing, recalling fractions and value quantities where multiplication						

Summer 2 Y6	Week 1	Week 2	Week 3	Week 4	Week 5
<b>DAILY Practise</b>	TIME - Analogue and 24 hour	Measures - litres/ml, Km,m,kg,g			
<b>Tables</b>	All	Beyond 12x	Beyond 12x		
	<b>Exploring Number</b>	<b>Number practise</b>	<b>Statistics and graphwork</b>	<b>Percentages</b>	
	NUMBER BASES - Base 2	Multiplying with decimals, mental strategies only	Introducing median and mode and consolidating mean	Recall finding percentages	
	<b>Why the binary system is important</b>		Introducing range as a measure of dispersion	Application of percentages eg. TAX. Explore earnings for a range of professions	
	<b>Changing base 2 numbers into base 10</b>	1 digit numbers, eg. $8 \times .7$			
	<b>Changing base 10 into base 2</b>	$.8 \times .\text{E}$			
	<b>Adding numbers in base 2</b>	2 digit numbers, eg $1.2 \times 3$			
	<b>Reinforcement of using power notation,</b> $2^2 \quad 2^3 \quad 2^4$	$1.2 \times .3$			
		$1.2 \times 1.2$			
		Long multiplication with decimals, written strategies			
		up to 3 digits x 3 digits eg. $3.13 \times 2.17$			
		Use of estimation to check results			
	HA - explore other number bases	LA - consolidate long mult and long division without decimals		HA - extend to link to Week 2 for HA. Eg find 37% of £17.20 using long multiplication	
		HA - move on to long division with decimals			