		AUTUMN 1 - YEAR 6 MATHEMATICS OBJECTIVES
		For all units of work, problem solving and reasoning opportunities are integrated.
		Red typing refers to Year 5 objectives
Starters	See objectives	in the checklist
	TOPIC	
Week 1, 2 and 3 4 place	Place Value/ decimals	 Number: place value Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit. (Begin with 1,000,000). Round any whole number to a required degree of accuracy. (10,100, 1000, 10,000, 100,000 and 1,000,000).
value		Use negative numbers in context, and calculate intervals across zero.
and		Identify the value of each digit in numbers given to three decimal places
baseline		Solve number and practical problems that involve all of the above
testing		• To read Roman numerals to 1000 (M) and recognise years written in Roman numeral (Revision from year 5)
		 To multiply and divide numbers by 10, 100 and 1000 giving answers up to 3dp.
		End of unit assessment
Weeks	Addition,	To ensure that I can use column addition and column subtraction confidently
5 and 6	Subtraction, multiplication and division	 Solve addition and subtraction multi step problems in contexts, deciding which operations and methods to use and why. Multiply multi-digit number up to 4 digits by a 2 digit number using the formal written method of long multiplication. Divide numbers up to 4 digits by a 2 digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions or by rounding as appropriate for the context.
		 Multiply one digit numbers with up to 2dp by whole numbers within two-step word problems. Divide numbers up to 4 digits by a 2 digit number using the formal written method of short division, interpreting remainders according to context.

		AUTUMN 2 - YEAR 6 MATHEMATICS OBJECTIVES - 2022
Starters	See objectives in the	checklist
	ТОРІС	
Week 1 and 2	Addition, Subtraction, multiplication and division	 Divide numbers up to 4 digits by a 2 digit number using the formal written method of short division, interpreting remainders according to context. Use written division methods in cases where the answer has up to two decimal places To solve multi-step word problems involving the four. Use written division methods in cases where the answer has up to two decimal places. To investigate divisibility rules Perform mental calculations, including with mixed operations and large numbers. Identify common factors, common multiples and prime numbers. Use their knowledge of the order of operations to carry out calculations involving the four operations. Solve problems involving addition, subtraction, multiplication and division. Use estimation to check answers to calculations and determine in the context of a problem, an appropriate degree of accuracy. End of unit assessment
Weeks 3/4/5	Fractions Revise place value here	 Find equivalent fractions (revise from year 5) To find fractions of amounts (revise from year 5) Revise improper fractions and mixed numbers Use common factors to simplify fractions; use common multiples to express fractions in the same denomination. Compare and order fractions, including fractions > 1 Generate and describe linear number sequences (with fractions) Add and subtract fractions with different denominations and mixed numbers, using the concept of equivalent fractions. Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example ¼ x ½ = 1/8) Divide proper fractions by whole numbers [for example 1/3 ÷ 2 = 1/6) Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example 3 /8 =] End of unit assessment

Week 6	Assessment and consolidation	 Practice SATs papers Longer investigation
Week 7	Ratio	 Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts. Solve problems involving similar shapes where the scale factor is known or can be found. Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples End of unit assessment

	Spring 1 - YEAR 6 MATHEMATICS OBJECTIVES - 2023			
Starters	See objectives in the	e checklist		
	ТОРІС			
Week 1	Ratio continue place value	 Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts. Solve problems involving similar shapes where the scale factor is known or can be found. Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples Number: place value Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit. (Begin with 1,000,000). Use negative numbers in context, and calculate intervals across zero To compare and order decimal numbers and to identify the value of each digit in numbers given to three decimal places (one lesson) To multiply and divide numbers by 10, 100 and 1000 giving answers up to 3dp. Solve problems which require answers to be rounded to specified degrees of accuracy. To round any whole number to a required degree of accuracy. (10,100, 100,000, 100,000 and 1,000,000). 		
Week 2	Percentages / Decimals	 Solve problems involving the calculation of percentages and finding percentages of amounts [for example, of measures and such as 15% of 360] and the use of percentages for comparison . (Umbrella objective) See below. To find percentages of numbers using efficient strategies. (Start with multiples of 10%) To find percentages of numbers using efficient strategies (move to multiples of 25%) To find any percentage of a number To solve problems involving percentages and the use of percentages for comparison. Recall and use equivalence s between simple FDP including in different contexts. 		
Weeks 3/4/5	Algebra	 Use simple formulae Generate and describe linear number sequences. Express missing number problems algebraically. Find pairs of numbers that satisfy an equation with two unknowns. Enumerate possibilities of combinations of two variables. End of unit assessment 		
Week 6	Assessment and consolidation	 Arithmetic and practice papers. Longer investigation 		

Spring 2 - YEAR 6 MATHEMATICS OBJECTIVES - 2023			
Starters	See objectives in the	e checklist	
	TOPIC		
Week 1	Geometry-position and direction Measurement converting units	 Describe positions on the full coordinate grid (all four quadrants). Draw and translate simple shapes on the coordinate plane, and reflect them in the axes. Use, read, write and convert between standard units, converting measurements of length, mass, capacity volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3dp. (Time conversion to be covered within time). 	
Week 2	Measurement-Perimeter, area and volume	 Recognise when it is possible to use formulae for area and volume of shapes. Convert between miles and kilometres. Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate 	
Week 3	Volume Area and Perimeter	 To understand what is meant by the term volume Calculate the area of parallelograms and triangles. To calculate the area and perimeter of rectangles. Recognise that shapes with the same areas can have different perimeters and vice versa. 	
Week 4 Week 5	Measurement-Perimeter, area and volume (continued) Assessment and	 Calculate the volume of cubes and cuboids Calculate, estimate and compare volume of cubes and cuboids using standard units, including cm3, m3 and extending to other units (mm3, km3) Convert between 12 and 24 hrs clocks and to solve problems involving conversion of time (recap lesson) To calculate intervals between times and find times when given an interval (recap y5) Complete, read and interpret information in tables including timetables (recap y5) Arithmetic and practice papers. 	
	consolidation	•	

Weeks	Geometry-properties of	Illustrate and name parts of circles, including radius, diameter and circumference and know that the
6	shapes	diameter is twice the radius
		 To sort and classify 2-D shapes
		To measure a variety of angles accurately
		 Draw 2D shapes using given dimensions and angles.

Summer 1 - YEAR 6 MATHEMATICS OBJECTIVES - 2023			
Starters	See objectives in the	checklist	
	Торіс		
Week 1	Geometry-properties of	Compare and classify 3D shapes	
	shapes (continued)	 Practice SATs papers and pupil review of papers 	
Week 2	Geometry	 To identify the nets of 3-D shapes and build 3-D models from nets 	
		 Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons. 	
		 Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. 	
Week 3	Statistics	 Interpret and construct pie charts and line graphs and use these to solve problems. 	
		Calculate the mean as an average.	
Week 4	SATS	SATs Arithmetic Paper 1, Reasoning Paper 2, Reasoning Paper 3	
Week 5	Problem Solving	Extended problem solving and investigations.	
Week 6	Problem solving	Extended problem solving and investigations.	

SUMMER 2 - YEAR 6 MATHEMATICS OBJECTIVES - 2023				
TOPIC – poject	TOPIC – poject work and transition based topics combining maths and real life scenarios			
Week 1	Money	Compare and contrast credit and debit payment methods and decide when to use them		
		Budget a secondary school uniform		
		To understand about different methods of payment		
Week 2	Arts Week	Arts Week Maths lessons on the theme of 'Growth'		
Week 3	PGL Week	Year 6 Residential to PGL and London Group		
		(continue with wk 1 Money Week)		
Week 4	Money	Compare different types of accounts		
(continued		Understand that some jobs pay more than others and that money is one factor in choosing a job		
from wk 1)		Calculate simple exchange rates		
		To plan and budget a fundraiser (link to summer fair/mini market)		
Week 5 & 6	Statistics	Identify, gather, collate, present and evaluate data to help with the school upcoming environmental and		
		sustainability project and/or Healthy Schools		
Week 7	Travel	Plan, research, budget and timetable a Brookland school trip abroad		
		To use maps, coordinates and map scales to plan and budget journey options to local secondary schools		