

AUTUMN 1 - YEAR 6 MATHEMATICS OBJECTIVES 2026 27

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		Fluency:
Week 1, 2 and 3 4 place value and baseline testing	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). - Use negative numbers in context, and calculate intervals across zero. - Identify the value of each digit in numbers given to three decimal places - Solve number and practical problems that involve all of the above - 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	- Counting backwards and forwards in intervals across 0 - Multiplying and dividing by 10,100, 1000 - Quick rounding of numbers - Times tables focus: 3x, 4x, 6x (include division facts + multiples of 10 + decimals eg. 0.4 x 6)
Weeks 5 and 6	Addition, Subtraction, multiplication and division	- To ensure that I can use column addition and column subtraction confidently - 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.	- Add and subtract numbers mentally with increasingly large numbers (using different strategies eg. partitioning/adjusting/n ear doubles etc) - Times tables focus: 8x, 9x (include division facts + multiples of 10 + decimals eg. 0.8 x 6) Multiplying and dividing by multiples of 10 eg. 60 x 40 / 1440 divided by 12

			• Squaring numbers
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AUTUMN 2 - YEAR 6 MATHEMATICS OBJECTIVES - 2022

AUTUMN 2 - YEAR 6 MATHEMATICS OBJECTIVES - 2022			
Starters	See objectives in the checklist		
	TOPIC		Fluency
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	- Times tables focus = 7x, 11x - Multiplying and dividing by multiples of 10 eg. 60×40 / 1440 divided by 12 - Perform mental calculations, including with mixed operations and large numbers. - Finding multiples of two digit numbers by partitioning
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 $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$] - Divide proper fractions by whole numbers [for example $\frac{1}{3} \div 2 = \frac{1}{6}$]	- Counting in different fractions forward and backwards (include mixed number and improper fractions) - Add and subtract fractions with linked denominators - Times tables focus on 12x, 11x, 7x

		• 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	• Times tables focus = all
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	• Doubles and halves of numbers to 100 • Multiplying and dividing larger numbers mentally using strategies (eg. x 4 by double and double again/ partitioning/ x5 by multiplying by 10 and halving.)

Spring 1 - YEAR 6 MATHEMATICS OBJECTIVES - 2025			
Starters	See objectives in the checklist		
	TOPIC		Fluency
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, 1000, 10,000, 100,000 and 1,000,000).	- Using multiplication known facts to solve other multiplication and divisions eg. 0.3×4, 60×80 - Counting forward and back in positive/negative numbers - Rounding any given number including decimals
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.	- Quick recall – equivalent fractions and percentages - Find 10% of any number mentally - Find 50%/25% of any number mentally
Weeks	Algebra	Use simple formulae	Counting in different

3/4/5		• 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	decimal steps • Using multiplication known facts to solve other multiplication and divisions eg. 0.3×4, 60×80 • Add and subtract larger numbers mentally • Use number bonds in the context of measures/money
Week 6	Assessment and consolidation	• Arithmetic and practice papers. • Longer investigation	• Multiply and divide by 10,100,1000

Spring 2 - YEAR 6 MATHEMATICS OBJECTIVES - 2023			
Starters	See objectives in the checklist		
	TOPIC		Fluency:
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).	• Quick conversions of measures • Halving numbers up to 100 • Finding $\frac{1}{4}$ of a number by halving and halving again • Use number bonds in the context of measures/money
Week 2	Measurement-	• Recognise when it is possible to use formulae for area and volume of shapes. • Convert between miles and kilometres.	• Using multiplication known facts to solve

	Perimeter, area and volume	- Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate	other multiplication and divisions eg. 0.3×4, 60×80
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.	- Find multiples of two-digit numbers by partitioning - Add and subtract fractions mentally
Week 4	Measurement- Perimeter, area and volume (continued...)	- Calculate the volume of cubes and cuboids Calculate, estimate and compare volume of cubes and cuboids using standard units, including cm^3, m^3 and extending to other units (mm^3, km^3) 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)	- Multiply three single digit numbers - Count in steps of time - Find 10% of a number and use this to find 20% and 5%
Week 5	Assessment and consolidation	Arithmetic and practice papers.	Using multiplication known facts to solve other multiplication and divisions eg. 0.3×4, 60×80
Weeks 6	Geometry-properties of shapes	- Illustrate and name parts of circles, including radius, diameter and circumference and know that the 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.	- Find equivalent fractions and percentages - Find $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$ of a number mentally - Find 10%, 20%, 5% of a number mentally

Summer 1 - YEAR 6 MATHEMATICS OBJECTIVES - 2023			
Starters	See objectives in the checklist		
	Topic		
Week 1	Geometry- properties of shapes (continued...)	- Compare and classify 3D shapes - Practice SATs papers and pupil review of papers	Count in steps of different numbers, including decimals
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.	- Multiply and divide by 10,100, 1000 - Find 10%, 5%, 20% of a number mentally
Week 3	Statistics	- Interpret and construct pie charts and line graphs and use these to solve problems. - Calculate the mean as an average.	- Multiply fractions by fractions and integers, divide fractions by integers - Add and subtract fractions - Using multiplication known facts to solve other multiplication and divisions eg. 0.3×4, 60×80
Week 4	SATS	SATs Arithmetic Paper 1, Reasoning Paper 2, Reasoning Paper 3	

Week 5	Problem Solving	Extended problem solving and investigations.	Counting in different steps, including decimals
Week 6	Problem solving	Extended problem solving and investigations.	Add and subtract larger numbers mentally

SUMMER 2 - YEAR 6 MATHEMATICS OBJECTIVES - 2023

TOPIC – project 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 (continued from wk 1)	Money	Compare different types of accounts Understand that some jobs pay more than others and that money is one factor in choosing a job 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

