

AUTUMN 1 - YEAR 4 MATHEMATICS OBJECTIVES-

Red typing denotes Year 3 objectives.

Problem Solving and Reasoning are embedded within the units of work.

Starters	See objectives in the checklist	
	TOPIC	
Week 1, week 2, week 3	Number and Place Value	<ul style="list-style-type: none">• Count in multiples of 6, 7, 9. 25 and 1000.• Find 1000 more or less than a given number.• Count backwards through zero to include negative numbers.• Recognise the place value of each digit in a three number.• Recognise the place value of each digit in a four digit number (thousands, hundreds, tens and ones)• Order and compare numbers beyond 1000.• Identify, represent and estimate numbers using different representations.• Round any number to the nearest 10, 100 or 1000.• Solve number and practical problems that involve all of the above and with increasingly large positive numbers.• Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the c• End of unit assessment
Weeks 4, 5, 6,	Addition and Subtraction	<ul style="list-style-type: none">• Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate. <i>(Start with 3 digit numbers as a revision)</i>• Estimate and use inverse operations to check answers to a calculation.• Solve addition and subtraction two step problems in contexts, deciding which operations and methods to use and why• End of unit assessment
Week 7	Measure Length and perimeter	<ul style="list-style-type: none">• <i>Revise mm/cm and m. Convert between cm and m.</i>• Convert between different units of measure eg kilometre to metre.• Measure and calculate the perimeter of a rectilinear figure (including squares) in cm and m

AUTUMN 2 - YEAR 4 MATHEMATICS OBJECTIVES - 2022

Starters	See objectives in the checklist	
	TOPIC	
Week 1 2 and 3.	Multiplication and Division Grid method	<ul style="list-style-type: none"> • Recall and use multiplication and division facts for multiplication tables up to 12 x 12. • Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1 • To multiply three numbers using effective strategies. • Recognise and use factor pairs and commutativity in mental calculations. • To understand that division is repeated subtraction and the concepts of remainders. • Multiply two digit and three digit numbers by a one digit number using a written method (the grid method). • To divide 2 and 3 digit numbers by a 1 digit number using a written method- short division(place value counters.) • End of unit assessment
Weeks 4, 5	Geometry- properties of shapes	<ul style="list-style-type: none"> • 3D shapes recap • Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. • Identify lines of symmetry in 2D shapes presented in different orientations. • Complete an simple symmetric figure with respect to a specific line of symmetry. • Identify acute and obtuse angles and compare and order angles up to two right angles by size. • End of unit assessment
Week 6 and 7	Time	<ul style="list-style-type: none"> • To tell the time to the nearest 5 minutes • Estimate and read time with increasing accuracy to the nearest minute. • Tell and write the time from an analogue clock, including using Roman numerals from I to XII and 12-hour and 24-hour clocks. • Record and compare time in terms of seconds, minutes and hours. • Compare durations of events [for example to calculate the time taken by particular events or tasks]. • (Find duration between events) • End of unit assessment

Spring 1 - YEAR 4 MATHEMATICS OBJECTIVES - 2023

Starters	See objectives in the checklist	
	TOPIC	
Week 1, 2 and 3	Multiplication and division Multiplication methods 1) Grid 2) short expanded column 3) Short multiplication Division methods 1) Repeated subtraction on a number line 2) Short division	<ul style="list-style-type: none"> • To multiply two digit and three digit numbers by a one digit number using the grid method (revision) • To use the short expanded method to multiply numbers • To multiply two digit and three digit numbers by a one digit number short multiplication • To solve two-step word problems involving short multiplication • To understand division as repeated subtraction • To divide 2 and 3 digit numbers by a 1 digit number using a formal written method (short division) • Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects. • To use the inverse to find the relationship between multiplication and division. • To investigate multiplication and division • End of unit assessment.
Week 4	Measure- area	<ul style="list-style-type: none"> • Find the area of rectilinear shapes by counting squares. • Convert between different units of measure eg kilometre to metre • To convert between units to solve word problems • End of unit assessment
Week 5	Measure money To prepare for mini market	<ul style="list-style-type: none"> • Estimate, compare and calculate different measures, including money in pounds and pence. (Umbrella objective) • To make specified amounts of money and make sure I know different coins. • To compare amounts of money using < or > sign • To add and subtract amounts of money to give change • Solve simple measure and money problems involving decimals to two decimal places.
Week 6	Fractions	<ul style="list-style-type: none"> • To assess what I know about fractions • Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. • Arithmetic test

Spring 2 - YEAR 4 MATHEMATICS OBJECTIVES - 2023

Starters	See objectives in the checklist	
	TOPIC	
Weeks 1 and 2	Fractions	<ul style="list-style-type: none"> • Add and subtract fractions with the same denominator within one whole • Add and subtract fractions with the same denominator (more than one whole) • Recognise and show, using diagrams, families of common equivalent fractions (use small denominators to start). • Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number. (To find fractions of numbers and amounts) • End of unit assessment
Week 3, 4 and 5	Place value/ Decimals	<ul style="list-style-type: none"> • Recognise the place value of each digit in a four digit number (thousands, hundreds, tens and ones) • Round any number to the nearest 10, 100 or 1000. • Recognise and write decimal equivalents of any number of tenths or hundredths. • Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ • Find the effect of dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths
Week 6	Assessment and consolidation	<ul style="list-style-type: none"> • Consolidation and Assessment Activities

Summer 1 - YEAR 4 MATHEMATICS OBJECTIVES - 2023

Starters		
See objectives in the checklist		
	Topic	
Week 1	Decimals	<ul style="list-style-type: none"> • Round decimals with one decimal place to the nearest whole number. • Compare numbers with the same number of decimal places up to two decimal places • Add and subtract decimal numbers with up to 4 digits. • End of unit assessment
Week 2 and 3	Decimals to be continued if necessary Geometry position and direction	<ul style="list-style-type: none"> • Describe positions on a 2D grid as coordinates in the first quadrant. • Describe movements between positions as translations of a given unit to the left/ right and up/ down. • Plot specified points and draw sides to complete a given polygon.
Weeks 4,5,6	Time End of year 4 tests (week 5) Incorporate times tables for MTC check.	<ul style="list-style-type: none"> • To read and write the time shown on analogue clocks to the nearest minute. • To read and write the time shown on analogue clocks and draw hands on a clock. • Convert between different units of measure eg hour to minute. • To read, write and convert time between analogue and digital 12 and 24 hour clocks.. • Calculate time intervals • Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days • End of unit assessment

Summer 2 - YEAR 4 MATHEMATICS OBJECTIVES - 2023

Starters		
See objectives in the checklist		
	TOPIC	
Week 1/2	Statistics	<ul style="list-style-type: none"> • Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. • Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs
Week 3	Measure- money	<ul style="list-style-type: none"> • Estimate, compare and calculate different measures, including money in pounds and pence. (Break down

		<p>into objectives)</p> <ul style="list-style-type: none"> • To compare amounts of money using < or > sign • To calculate change accurately. • Solve simple measure and money problems involving decimals to two decimal places. • Solve simple measure and money problems involving fractions and decimals to two decimal places.
Week 4	<p>Fractions</p> <p>Could be Arts week</p>	<ul style="list-style-type: none"> • Recognise and show, using diagrams, families of common equivalent fractions. • Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. • Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities including non-unit fractions where the answer is a whole number. (finding fractions of amounts) • Add and subtract fractions with the same denominator greater than a whole.
Week 5/6	<p>Place value/ decimals/ measure revision</p> <p>Could be starters</p>	<ul style="list-style-type: none"> • Count backwards through zero to include negative numbers • Compare numbers with the same number of decimal places up to two decimal places • Round decimals with one decimal place to the nearest whole number • To convert between units of length (investigation)
Week 7 +	<p>Assessment Consolidation/ Investigations</p>	<p>Consolidation</p> <p>Ensure that all children can add and subtract four digit numbers fluently (and decimals)</p> <p>Ensure that all children can multiply and divide 3 digit by 1 digit numbers fluently using short multiplication and short division.</p> <p>Complete a longer investigation.</p>