

Oxhey First School



Progressive Mathematics Curriculum

Overview

EYFS Long-Term Overview



	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	
Autumn		etting now Y		Just Like Me!		It's Me 12 3!		It's Me 12 3!		Light and Dark				Consol	lidation
Spring	Al	ive in	5!		rowir 6, 7, 8	•		uildin and 1	_	Consolidation					
Summer		20 a Beyon		Fir	st Th Now	en		ind M Patter	-	On The Move					

EYFS Autumn Term

Autumn



Week 1	Week 2	Week 3		Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Getti	ng to I You	g to Know You		Just Like Me!			It's Me 1 2 3!			Light and Dark		
settling the are	portunities g in, intro eas of pro eting to kr children.	ducing ovision	Number		tch and S pare Amo		Representing 1, 2 & 3 Comparing 1, 2 & 3 Composition of 1, 2 & 3			Representing Number to 5. One More and Less.		
routine contir inside do tl	nes of day es. Explori nuous pro and out. ' nings belo onal lang	ing the vision Where ong?	Measure, Shape and Spatial Thinking	·	are Size, N Capacity oring Pat	,	Circles and Triangles Positional Language			Shape	es with 4 Time	Sides.

EYFS Spring Term

Spring



	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	
Phase	A	llive in 5	5!	Gro	wing 6,	7, 8	Building 9 & 10			
Number	Compar	oducing z ing numb osition of	ers to 5		mbining 2 amounts Comparin			nting to 9 ing numb Bonds to 1	ers to 10	
Measure, Shape and Spatial Thinking		pare Mas are Capad		Ler	ngth & Hei Time	ght	7	3d-shapes Patterns	6	

EYFS Summer Term

Summer



	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Phase		o 20 ai Beyond		First Then Now				ind m Patterr	•	On the Move		
Number	B Cour	ling Nun eyond 1 nting Pat eyond 1	0 tterns		Adding More Taking Away			Doubling Sharing & Grouping Even & Odd			eepenir Jerstand tterns a lationsh	ding nd
Spatial Thinking	Ma	l Reason Itch, Rota Ianipulat	ate,	Spatial Reasoning (2) Compose and Decompose			•	. Reason lise and	• • •		. Reason Mapping	•



EYFS Skills Progression

Number—Nursery	Number—Reception
Show 'finger' numbers up to 5.	Count objects, actions and sounds
Say one number for each item in order: 1,2,3,4,5.	Link numeral with its cardinal number value
Know that the last number reached when counting a small set of objects tells you how many there are in total. (cardinal principal).	Subitise up to 5
Recite numbers past 5	Compare numbers
Fast recognition of up to 3 objects without having to count them individually	Compare quantities up to 10 in different contexts, recognising one quantity is greater than, less than or the same as another (ELG)
	Count beyond 10
	Understand the 'one more than/one less than' relationship between consecutive numbers
	Explore composition on 10
	Have a deep understanding of number up to 10 including compostion
	Automatically recall number bonds to 5 and some bonds to 10, including double facts



EYFS Skills Progression

Numerical Patterns	Numerical Patterns
Talk about and identifies the patterns around them. For example:	Continue, copy and compare patterns
stripes, clothes, designs on rugs and wallpaper.	
Link numerals and amounts: for example, showing the right number of	Automatically (without reference to rhymes, counting or other aids), num-
objects to match the numeral, up to 5.	ber bonds to 5 (including subtraction facts) and some number bonds to
	10.
Experiment with their own symbols and marks as well as numerals.	Recall some double facts up to 10
Extend and create ABAB patterns, leaf, stick, leaf, stick	Explore and represent patterns within numbers to 10 including evens,
	odds, double facts and how quantities can be distributed equally
Notice and correct an error in a repeating pattern	Verbally count beyond 20, recognising the pattern of the counting system
	Compare quantities up to 10 in different contexts, recognising
	one quantity is greater than, less than or the same as another
	(ELG)



EYFS Skills Progression

Shape, space and Measure	Shape, space and Measure
Understand position through words alone. For example: The bag is under the table.	Select, rotate and manipulate shapes in order to develop spatial reasoning skills
Select shapes appropriately: flat surfaces for a building, a triangular prism for a roof	Compare lengths, weights and capacity
Name and recognise some 2D shapes	
Discuss routes and locations using words 'infront, behind'.	
Talk about and explore 2D using informal and mathematical language 'sides', 'corners', 'straight'	
Combine shapes to make new ones—an arch, a bigger triangle etc	
Talk about and explore 3D using informal and using mathematical language: 'sides', 'corners', 'straight', 'flat', 'round.'	
Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then.'	
Solve real world mathematical problems with numbers up to 5	
Compare quantities using language 'more than', 'fewer than'	
Describe a familiar route	
Make comparisons between objects relating to size, length, weight and capacity	

This mixed age overview is based on a mixture of Key Stage 1 overviews from the White Rose scheme





Key Stage 1—Scheme of Learning

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Place Value			Place Value			Shape including position and direction		Addition and Subtraction		Addition and Subtraction	
Spring	Multipl	Multiplication and division			Fractions		Meas (Length Capacity fract	, Mass,	Mo	ney	Subti	ion and racting estimating
Summer		nsures me	Stat	istics		olving and methods	Consolidation Mixed Maths pro		blems	Inves	tigations lir measures	

This mixed age overview is based on a mixture of Key Stage 2 overviews from the White Rose scheme





Key Stage 2—Scheme of Learning

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn			Shape / P	lace Value			Addition and Subtraction					
Spring	Addition and Subtraction Multiplication and division Multiplication an				cation and	division	Multiplication and division Fraction					ctions
Summer	Measures capacity and mass Money		Stati	istics		Measures (Length)			Measures Time	;		



Primary Progression - Place Value

	Year 1	Year 2	Year 3	Year 4
Place Value: Counting	count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number Count numbers to 100 in numerals; count in multiples of twos, fives and tens	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward	count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number	count in multiples of 6, 7, 9, 25 and 1000 count backwards through zero to include negative numbers
Place Value: Represent	identify and represent numbers using objects and pictorial representations read and write numbers to 100 in numerals read and write numbers from 1 to 20 in numerals and words.	read and write numbers to at least 100 in numerals and in words identify, represent and estimate numbers using different representations, including the number line	identify, represent and estimate numbers using different representations read and write numbers up to 1000 in numerals and in words	identify, represent and estimate numbers using different representations read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value



Primary Progression - Place Value

	Year 1	Year 2	Year 3	Year 4
Place Value : Use PV and Compare	given a number, identify one more and one less	recognise the place value of each digit in a two-digit number (tens, ones) compare and order numbers from 0 up to 100; use <, > and = signs	recognise the place value of each digit in a three-digit number (hundreds, tens, ones) compare and order numbers up to 1000	find 1000 more or less than a given number recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) order and compare numbers beyond 1000
Place Value: Problems& Rounding		use place value and number facts to solve problems.	solve number problems and practical problems involving these ideas	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



Primary Progression - Addition & Subtraction

	Year 1	Year 2	Year 3	Year 4
Addition & Subtraction: Recall, Represent, Use	read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs represent and use number bonds and related subtraction facts within 20	recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems recall and use related	estimate the answer to a calculation and use inverse operations to check answers	estimate and use inverse operations to check answers to a calculation



Primary Progression - Addition & Subtraction

	Year 1	Year 2	Year 3	Year 4
Addition & Subtraction: Calculations	add and subtract one- digit and two-digit numbers to 20, including zero	 add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones a two-digit number and tens two two-digit numbers adding three one-digit numbers 	add and subtract numbers mentally, including: a three-digit number and ones a three-digit number and tens a three-digit number and hundreds add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction	add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate



Primary Progression - Addition & Subtraction

88	Year 1	Year 2	Year 3	Year 4
Addition & Subtraction: Solve Problems	solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = 0 - 9	solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods	solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction	solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why



Primary Progression - Multiplication & Division

	Year 1	Year 2	Year 3	Year 4
Multiplication & Division: Recall, Represent, Use		recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot	recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	recall multiplication and division facts for multiplication tables up to 12 × 12 use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers recognise and use factor pairs and commutativity in mental calculations



Primary Progression - Multiplication & Division

Year 1 Year 2 Year 3	Year 4
calculate mathematical statements for multiplication and division within the multiplication (e), division (-) and equals (=) signs calculate mathematical statements for multiplication tables and write them using the multiplication (e), division (-) and equals (=) signs virile and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-din numbers times one digit numbers, using mental and progressing to form written methods virile and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-din numbers times one digit numbers, using mental and progressing to form written methods	



Primary Progression - Multiplication & Division

88	Year 1	Year 2	Year 3	Year 4
Multiplication & Division: Solve Problems	solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher	solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts	solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects	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
Multiplication & Division: Combined Operations				



Primary Progression – Fractions, Decimals, Percentages

	Year 1	Year 2	Year 3	Year 4
Fractions: Recognise and Write	recognise, find and name a half as one of two equal parts of an object, shape or quantity recognise, find and name a quarter as one of four equal parts of an object, shape or quantity	recognise, find, name and write fractions \(\frac{1}{3}, \frac{1}{4}, \frac{2}{4} \) and \(\frac{3}{4} \) of a length, shape, set of objects or quantity	count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators with small denominators	count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.
Fractions: Compare		Recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$	recognise and show, using diagrams, equivalent fractions with small denominators compare and order unit fractions, and fractions with the same denominators	recognise and show, using diagrams, families of common equivalent fractions





Primary Progression - Fractions, Decimals, Percentages

	Year 1	Year 2	Year 3	Year 4
Fractions: Calculations		• write simple fractions for example, $\frac{1}{2}$ of $6 = 3$	• add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$]	add and subtract fractions with the same denominator
Fractions: Solve Problems			solve problems that involve all of the above	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



Primary Progression – Fractions, Decimals, Percentages

	Year 1	Year 2	Year 3	Year 4
Decimals: Recognise and Write				 recognise and write decimal equivalents of any number of tenths or hundredths recognise and write decimal equivalents to \(\frac{1}{4}, \frac{1}{2}, \frac{3}{4}\)
Decimals: Compare				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



Primary Progression - Fractions, Decimals, Percentages

	Year 1	Year 2	Year 3	Year 4
Decimals: Calculations & Problems				find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths



Primary Progression - Fractions, Decimals, Percentages

	Year 1	Year 2	Year 3	Year 4
Fractions, Decimals and Percentages				solve simple measure and money problems involving fractions and decimals to two decimal places



Primary Progression - Algebra

	Year 1	Year 2	Year 3	Year 4
Algebra	solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = \square = 9	recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems	solve problems, including missing number problems	

Note – although algebraic notation is not introduced until Y6, algebraic thinking starts much earlier as exemplified by the 'missing number' objectives from Y1/2/3



	Year 1	Year 2	Year 3	Year 4
Measurement: Using Measures	 compare, describe and solve practical problems for: lengths and heights [for example, long/short, longer/shorter, tall/short, double/half] mass/weight [for example, heavy/light, heavier than, lighter than] capacity and volume [for example, full/empty, more than, less than, half, half full, quarter] time [for example, quicker, slower, earlier, later] measure and begin to record the following: lengths and heights mass/weight capacity and volume time (hours, minutes, seconds) 	 choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels compare and order lengths, mass, volume/capacity and record the results using >, < and = 	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (I/mI)	Convert between different units of measure [for example, kilometre to metre; hour to minute] estimate, compare and calculate different measures



	Year 1	Year 2	Year 3	Year 4
Measurement: Money	recognise and know the value of different denominations of coins and notes	 recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value find different combinations of coins that equal the same amounts of money solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change 	add and subtract amounts of money to give change, using both £ and p in practical contexts	estimate, compare and calculate different measures, including money in pounds and pence



Year 1	Year 2	Year 3	Year 4
sequence events in chronological order using language [for example, before a after, next, first, too yesterday, tomorror morning, afternoo and evening] recognise and use language relating dates, including dates, including dates, including dates, including dates, months and years tell the time to the hour and half past hour and draw the hands on a clock for show these time.	sequence intervals of time tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times know the number of minutes in an hour and the number of hours in a day the	tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight know the number of seconds in a minute and the number of days in each month, year and leap year compare durations of events [for example to calculate the time taken by particular events or tasks]	read, write and convert time between analogue and digital 12- and 24-hour clocks solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days



	Year 1	Year 2	Year 3	Year 4
Measurement: Perimeter, Area, Volume			measure the perimeter of simple 2-D shapes	measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres find the area of rectilinear shapes by counting squares



Primary Progression - Geometry

		Year 1	Year 2	Year 3	Year 4
Geometry:	2-D Shapes	recognise and name common 2-D shapes [for example, rectangles (including squares), circles and triangles]	identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid] compare and sort common 2-D shapes and everyday objects	draw 2-D shapes	compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes identify lines of symmetry in 2-D shapes presented in different orientations
Geometry:	3-D Shapes	recognise and name common 3-D shapes [for example, cuboids (including cubes), pyramids and spheres]	recognise and name common 3-D shapes [for example, cuboids (including cubes), pyramids and spheres]. compare and sort common 3-D shapes and everyday objects	make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them	



Primary Progression - Geometry

	Year 1	Year 2	Year 3	Year 4
Geometry: Angles & Lines			recognise angles as a property of shape or a description of a turn dentify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle dentify horizontal and vertical lines and pairs of perpendicular and parallel lines	identify acute and obtuse angles and compare and order angles up to two right angles by size identify lines of symmetry in 2-D shapes presented in different orientations complete a simple symmetric figure with respect to a specific line of symmetry



Primary Progression - Geometry

	Year 1	Year 2	Year 3	Year 4
Geometry: Position & Direction	describe position, direction and movement, including whole, half, quarter and three-quarter turns	order and arrange combinations of mathematical objects in patterns and sequences use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise)		describe positions on a 2-D 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



Primary Progression - Statistics

	Year 1	Year 2	Year 3	Year 4
Statistics: Present and Interpret		interpret and construct simple pictograms, tally charts, block diagrams and simple tables	interpret and present data using bar charts, pictograms and tables	interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs
Statistics: Solve Problems F		ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity ask and answer questions about totalling and comparing categorical data	solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables	solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs