Maths Progression of Skills

The document below demonstrates how we structure and sequence our maths curriculum across the school to ensure our pupils gain a rich and wide range of mathematical skills, knowledge and vocabulary, effectively built upon year on year.

Number and Place Value

EYFS	Year 1	Year 2
Select the correct numeral to represent 1 to	Count to and across 100, forwards and backwards,	Count in steps of 2, 3, and 5 from 0, and in tens from
5, then 1 to 10 objects and 1 to 20 objects.	beginning with 0 or 1, or from any given number.	any number, forward and backward
Count an irregular arrangement of up to ten	Count, read and write numbers to 100 in numerals.	Recognise the place value of each digit in a two-digit
objects.	Count in multiples of twos fives and tens	number (tens, ones)
Count reliably with numbers from 1 to 20.		Identify, represent and estimate numbers using
	Given a number to 100, identify one more and one	different representations, including the number line
Place numbers from 1-20 in order.	less	
Couverbish number is one more or one loss	Identify and represent numbers using objects and	Compare and order numbers from 0 up to 100; use
than a given number to 20.	nictorial representations including the number line.	more than, less than and = signs
	and use the language of: equal to, more than, less	Read and write numbers to at least 100 in numerals
Estimate how many objects they can see	than (fewer), most,	and in words
from a small quantity and check by counting		
them.	Read and write numbers from 1 to 20 in numerals and	Use place value and number facts to solve problems
	words.	

Addition and Subtraction

EYFS	Year 1	Year 2
Finds the total number of items in two	Read, write and interpret mathematical statements	Solve problems with addition and subtraction:
groups by counting all of them. [up to 20]	involving addition (+), subtraction (–) and equals (=)	using concrete objects and pictorial
Find and more or one loss from a group of	signs	representations, including those involving numbers,
un to five objects, then ten objects	Represent and use number bonds and related	A applying their increasing knowledge of mental and
	subtraction facts within 20	written methods
Use the language of 'more' and 'fewer' to		
compare two sets of objects.	Add and subtract one-digit and two-digit numbers to	recall and use addition and subtraction facts to 20
	20, including zero	fluently, and derive and use related facts up to 100
Using quantities and concrete objects, add		
and subtract two single-digit numbers and	subtraction using concrete objects and nictorial	add and subtract numbers using concrete objects,
count on or back to find the answer.	representations, and missing number problems such	a two-digit number and ones
In practical activities and discussion,	as 7 = -9.	 a two-digit number and tens
beginning to use the vocabulary involved in		two two-digit numbers
adding and subtracting.		adding three one-digit numbers
Depart using marks that they can interpret		
and explain		show that addition of two numbers can be done in
		any order (commutative) and subtraction of one
		recognise and use the inverse relationship between
		addition and subtraction and use this to check
		calculations and solve missing number problems.

Multiplication and Division [EYFS in the context of doubling, halving and sharing]

EYFS	Year 1	Year 2
Solve simple practical problems, including doubling, halving and sharing.	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.	recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs
		show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot
		solve problems involving multiplication and division,
		using materials, arrays, repeated addition, mental
		methods, and multiplication and division facts,
		including problems in contexts.

Fractions [EYFS in the context of halving and sharing]

EYFS	Year 1	Year 2
Solve simple practical problems involving halving.	Recognise, find and name a half as one of two equal parts of an object, shape or quantity	Recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity.
	Recognise, find and name a quarter as one of four	
	equal parts of an object, shape or quantity	Write simple fractions e.g. $1/2$ of 6 = 3 and recognise the equivalence of $2/4$ and $1/2$.

Measurement

EYFS	Year 1	Year 2
Use everyday language to talk about	compare, describe and solve practical problems for:	choose and use appropriate standard units to
size	Iengths and heights [for example, long/short,	estimate and measure length/height in any direction
🐥 weight	longer/shorter, tall/short, double/half]	(m/cm); mass (kg/g); temperature (°C); capacity
& capacity	mass/weight [for example, heavy/light, heavier	(litres/ml) to the nearest appropriate unit, using
♣ position	than, lighter than]	rulers, scales, thermometers and measuring vessels
& time	capacity and volume [for example, full/empty,	
& money	more than, less than, half, half full, quarter]	compare and order lengths, mass, volume/capacity
	time [for example, quicker, slower, earlier, later]	and record the results using >, < and =
Compare quantities and objects and solve		
simple problems.	measure and begin to record the following:	recognise and use symbols for pounds (£) and pence
	Iengths and heights	(p); combine amounts to make a particular value
Order two or three items by length or	mass/weight	
height.	capacity and volume	find different combinations of coins that equal the
	time (hours, minutes, seconds)	same amounts of money
Order two items by weight or capacity.		
	recognise and know the value of different	solve simple problems in a practical context involving
Use everyday language related to time.	denominations of coins and notes	addition and subtraction of money of the same unit,
		Including giving change
Begin to use everyday language related to	sequence events in chronological order using	
money.	language [for example, before and after, next, first,	compare and sequence intervals of time
	today, yesterday, tomorrow, morning, afternoon and	tall and write the time to five minutes including
Order and sequences familiar events.	evening]	tell and write the time to five minutes, including
		clock face to show those times
Measure short periods of time in simple	recognise and use language relating to dates,	
ways.	including days of the week, weeks, months and years	know the number of minutes in an hour and the
		number of hours in a day
	tell the time to the hour and half past the hour and	
	draw the hands on a clock face to show these times.	

Geometry –properties of shapes

EYFS	Year 1	Year 2
Begin to use mathematical names for 'solid'	recognise and name common 2-D and 3-D shapes,	identify and describe the properties of 2-D shapes,
3D shapes and 'flat' 2D shapes.	including:	including the number of sides and line symmetry in a vertical line
Select a particular named shape.	2-D shapes [for example, rectangles (including	
	squares), circles and triangles]	identify and describe the properties of 3-D shapes,
Use familiar objects and common shapes to		including the number of edges, vertices and faces
create and recreate patterns and build	♣ 3-D shapes [for example, cuboids (including cubes),	
models.	pyramids and spheres].	identify 2-D shapes on the surface of 3-D shapes, [for
Evalura characteristics of even day chiests		example, a circle on a cylinder and a triangle on a
and shapes and use simple mathematical		pyramidj
and shapes and use simple mathematical		compare and cort common 2 D and 2 D change and
language to describe them.		compare and sort common 2-D and 3-D snapes and
		everyday objects.

Geometry –position and direction

EYFS	Year 1	Year 2
Describe their relative position using everyday language such as 'behind, 'in front of' or 'next to'.	Describe position, direction and movement, including whole, half, quarter and three quarter turns.	Order and arrange combinations of mathematical objects in patterns and sequences
Describe simple directions, e.g. forwards, backwards.		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
Recognise, create and describe simple patterns		three-quarter turns (clockwise and anticlockwise).

Statistics

EYFS	Year 1	Year 2
		Interpret and construct simple pictograms, tally charts, block diagrams and simple tables
		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.