Bowmansgreen Primary School

ANSG

Mathematics Curriculum Year Group Overview – Year Two

National Curriculum (Statutory Requirements)

Number and Place	Addition and Subtraction	Multiplication and Division	Fractions	Measurement	Geometry: Properties of	Geometry: Position	Statistics
Value					Shapes	and Direction	
Count in steps of 2, 3,	Solve problems with addition and	Recall and use multiplication	Recognise, find,	Choose and use appropriate	Identify and describe the	Order and arrange	Interpret and
and 5 from 0, and in	subtraction:	and division facts for the 2, 5	name and write	standard units to estimate and	properties of 2-d shapes,	combinations of	construct simple
tens from any	 Using concrete objects and 	and 10 multiplication tables,	fractions $\frac{1}{3}, \frac{1}{4},$	measure length/height in any	including the number of	mathematical objects	pictograms, tally
number, forward or	pictorial representations,	including recognising odd and		direction (m/cm); mass (kg/g);	sides and symmetry in a	in patterns and	charts, block
backward.	including those involving	even numbers.	$^{2}/_{4}$ and $^{3}/_{4}$ of a	temperature (°c); capacity	vertical line.	sequences.	diagrams and
	numbers, quantities and	Calculate mathematical		(litres/ml) to the nearest			simple tables.
Recognise the place	measures.	statements for multiplication	length, shape, set of objects or	appropriate unit, using rulers,	Identify and describe the	Use mathematical	
value of each digit in	 Applying their increasing 	and division within the	quantity.	scales, thermometers and	properties of 3-d shapes,	vocabulary to describe	Ask and answer
a two-digit number	knowledge of mental and	multiplication tables and write	quantity.	measuring vessels.	including the number of	position, direction and	simple questions
(tens, ones).	written methods.	them using the multiplication	Write simple		edges, vertices and faces.	movement, including	by counting the
		(×), division (÷) and equals (=)	fractions for	Compare and order lengths, mass,		movement in a	number of
Identify, represent	Recall and use addition and	signs.		volume/capacity and record the	Identify 2-d shapes on the	straight line and	objects in each
and estimate	subtraction facts to 20 fluently and	Show that multiplication of	example, $\frac{1}{2}$ of 6 =	results using >, < and =.	surface of 3-d shapes [for	distinguishing between	category and
numbers using	derive and use related facts up to	two numbers can be done in	3 and recognise		example a circle on a	rotation as a turn and	sorting the
different	100.	any order (commutative) and	the equivalence	Recognise and use symbols for	cylinder and a triangle on a	in terms of right angles	categories by
representations,		division of one number by	2 1	pounds (£) and pence (p); combine	pyramid].	for quarter, half and	quantity.
including the number	Add and subtract numbers using	another cannot.	of $\frac{1}{4}$ and $\frac{1}{2}$.	amounts to make a particular		three-quarter turns	
line.	concrete objects, pictorial			value.	Compare and sort	(clockwise and anti-	Ask and answer
	representations, and mentally,	Solve problems involving			common 2-d and 3-d	clockwise).	questions about
Compare and order	including:	multiplication and division,		Find different combinations of	shapes and everyday		totalling and
numbers from 0 up to	 A two-digit number and 	using materials, arrays,		coins that equal the same amounts	objects.		comparing
100; use <, > and =	ones.	repeated addition, mental		of money.			categorical data.
signs.	- A two-digit number and	methods, and multiplication					
Read and write	tens. - Two two-digit numbers.	and division facts, including		Solve simple problems in a practical context involving addition and			
numbers to at least	 Adding three one-digit 	problems in contexts.		subtraction of money of the same			
100 in numerals and	numbers.			unit, including giving change.			
in words.	numbers.			unit, including giving change.			
in worus.	Show that addition of two			Compare and sequence intervals of			
Use place value and	numbers can be done in any order			time.			
number facts to solve	(commutative) and subtraction of			une.			
problems.	one number from another cannot.			Tell and write the time to five			
problems.	one number nom another cannot.			minutes, including quarter past/to			
	Recognise and use the inverse			the hour and draw the hands on a			
	relationship between addition and			clock face to show these times.			
	subtraction and use this to check						
	calculations and missing number			Know the number of minutes in an			
	problems.			hour and the number of hours in a			
				day.			

Notes and Guidance (Non-Statutory)

Number and Place Value	Addition and Subtraction	Multiplication and Division	Fractions	Measurement	Geometry: Properties of Shapes	Geometry: Position and Direction	Statistics
Using materials and a	Pupils extend their understanding	Pupils use a variety of	Pupils use	Pupils use standard units of	Pupils handle and name a	Pupils should work	Pupils record,
ange of	of the language of addition and	language to describe	fractions as	measurement with increasing	wider variety of common	with patterns of	interpret, colla
epresentations,	subtraction to include sum and	multiplication and division.	'fractions of'	accuracy, using their knowledge of	2-D and 3-D shapes	shapes, including	organise and
oupils practise	difference.		discrete and	the number system. They use the	including: quadrilaterals	those in different	compare
ounting, reading,		Pupils are introduced to the	continuous	appropriate language and record	and polygons, and cuboids,	orientations.	information (f
vriting and	Pupils practise addition and	multiplication tables. They	quantities by	using standard abbreviations.	prisms and cones, and		example, usin
omparing numbers	subtraction to 20 to become	practise to become fluent in	solving problems	_	identify the properties of	Pupils use the concept	many-to-one
o at least 100 and	increasingly fluent in deriving facts	the 2, 5 and 10 multiplication	using shapes,	Comparing measures includes	each shape (for example,	and language of angles	corresponden
olving a variety of	such as using 3 + 7 = 10, 10 - 7 = 3	tables and connect them to	objects and	simple multiples such as 'half as	number of sides, number	to describe 'turn' by	with simple ra
elated problems to	and 7 = 10 - 3 to calculate 30 + 70	each other. They connect the	quantities. They	high'; 'twice as wide'.	of faces).	applying rotations,	2, 5, 10).
levelop fluency. They	= 100, 100 - 70 = 30 and 70 = 100 -	10 multiplication table to	connect unit	_		including in practical	
ount in multiples of	30.	place value, and the 5	fractions to equal	They become fluent in telling the	Pupils identify, compare	contexts (for example,	
hree to support their		multiplication table to the	sharing and	time on analogue clocks and	and sort shapes on the	pupils themselves	
ater understanding	They check their calculations,	divisions on the clock face.	grouping, to	recording it.	basis of their properties	moving in turns, giving	
of a third.	including by adding to check	They begin to use other	numbers when		and use vocabulary	instructions to other	
	subtraction and adding numbers in	multiplication tables and recall	they can be	Pupils become fluent in counting	precisely, such as sides,	pupils to do so, and	
As they become more	a different order to check addition	multiplication facts, including	calculated, and to	and recognising coins. They read	edges, vertices and faces.	programming robots	
onfident with	(for example, 5 + 2 + 1 = 1 + 5 + 2 =	using related division facts to	measures, finding	and say amounts of money		using instructions	
numbers up to 100,	1 + 2 + 5). This establishes	perform written and mental	fractions of	confidently and use the symbols £	Pupils read and write	given in right angles).	
oupils are introduced	commutativity and associativity of	calculations.	lengths,	and p accurately, recording pounds	names for shapes that are	0 - 0 - 0 - ,	
o larger numbers to	addition.		guantities, set of	and pence separately.	appropriate for their word		
levelop further their		Pupils work with a range of	objects or shapes.		reading and spelling.		
ecognition of	Recording addition and	materials and contexts in	3		Pupils draw lines and		
batterns within the	subtraction in columns supports	which multiplication and	They meet $/_4$ as		shapes using a straight		
number system and	place value and prepares for	division relate to grouping and	the first example		edge.		
epresent them in	formal written methods with	sharing discrete and	of a non-unit				
lifferent ways,	larger numbers.	continuous quantities, to	fraction.				
ncluding spatial		arrays and to repeated					
epresentations.		addition. They begin to relate	Pupils should				
		these to fractions and	count in fractions				
Pupils should		measures (for example, $40 \div 2$	up to 10, starting				
partition numbers in		= 20, 20 is a half of 40). They	from any number				
lifferent ways (for		use commutativity and inverse					
example, $23 = 20 + 3$		relations to develop	and using the $1/2$				
and $23 = 10+13$) to		multiplicative reasoning (for	$and^2/$				
$\sin(2) = 10 + 13/10$			and $/_{_4}$			1	

support subtraction. They become fluent and apply their knowledge of numbers to reason with, discuss and solve problems that emphasise the value of each digit in two- digit numbers. They begin to understand zero as a place holder.example, $4 \times 5=20$ and $20 \div 5$ =4).*** equivalence on the number line (for example, $1^{-1}/_4$, $1^{-1}/_4$ (or $1^{-1}/_2$), $1^{-3}/_4$, 2). This reinforces the concept of fractions as numbers and that they can add up to more than one.	
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