<u>Algebra</u>	Numbers and the Number System	Calculating	Using and Applying Mathematics	Shape, Space and Measure	Handling Data
recognise	count up to 10 objects read, write numbers to 10	understand addition as finding the total of two or more sets of objects	use mathematics as an integral part of classroom activities	use everyday language to describe properties of 2-D and 3-D shapes	sort and classify objects represent their work
sequences of numbers, including odd and even	order numbers to 10 begin to use the fraction, one-	understand subtraction as 'taking away' objects from a set and finding how many are left	represent their work with objects or pictures	use everyday language to describe positions of 2-D and 3-D shapes	demonstrate the criterion they have used
numbers	half	add and subtract numbers of objects to 10	discuss their work	measure and order objects using direct comparison	sort objects and classify them using
	count sets of objects reliably	begin to know some addition facts solve addition/subtraction problems involving up to 10	draw simple conclusions from their work	order events	more than one criterion
recognise a wider range of sequences	begin to understand the place value of each digit; use this to	objects	recognise and use a simple pattern or	use mathematical names for common 3-D and 2-D shapes	understand vocabulary relating to handling data
• '	order numbers up to 100	record their work	relationship	describe their properties, including numbers of sides and corners	collect and sort data to test a simple
begin to understand the role of '=' (the	begin to use halves and	use the knowledge that subtraction is the inverse of	select the mathematics they use in	describe the position of objects	hypothesis
'equals' sign)	quarters and relate the concept of half of a small quantity to the	addition and understand halving as a way of 'undoing' doubling and vice versa	some classroom activities discuss their work using mathematical	distinguish between straight and turning movements, recognise right angles in turns and understand angle as a measurement of	record results in simple lists, tables, pictograms and block graphs
	concept of half of a shape	use mental recall of addition and subtraction facts to 10	language	turn	communicate their findings, using
begin to use simple formulae expressed	understand place value in numbers to 1000	use mental calculation strategies to solve number problems including those involving money and measures	predict what comes next in a simple number, shape or spatial pattern or	begin to use a wider range of measures including to use everyday non-standard and standard units to measure length and mass	the simple lists, tables, pictograms and block graphs they have
in words	use place value to make	record their work in writing	sequence and give reasons for their opinions	begin to understand that numbers can be used not only to count	recorded
upo and interest	- approximations recognise negative numbers in	choose the appropriate operation when solving addition and subtraction problems	explain why an answer is correct	discrete objects but also to describe continuous measures	gather information construct bar charts and
use and interpret coordinates in the first quadrant	contexts such as temperature use simple fractions that are	derive associated division facts from known multiplication facts	select the mathematics they use in a wider range of classroom activities	classify 3-D and 2-D shapes in various ways using mathematical properties such as reflective symmetry for 2-D shapes	pictograms, where the symbol represents a group of units
ot quadrant	several parts of a whole and recognise when two simple	add and subtract two-digit numbers mentally add and subtract three digit numbers using written	try different approaches and find ways	begin to recognise nets of familiar 3-D shapes, e.g. cube, cuboid, triangular prism, square-based pyramid	use Venn and Carroll diagrams to record their sorting and classifying
construct, express in symbolic form, and	fractions are equivalent begin to use decimal notation in	method	of overcoming difficulties that arise when they are solving problems	recognise shapes in different orientations and reflect shapes, presented on a grid, in a vertical or horizontal mirror line	of information extract and interpret information
use simple formulae	contexts such as money	multiply and divide two digit numbers by 2, 3, 4 or 5 as well as 10 with whole number answers and remainders	begin to organise their work and check results	describe position and movement	presented in simple tables, lists, bar charts and pictograms
involving one or two operations	recognise and describe number patterns		use and interpret mathematical	use a wider range of measures including non-standard units and	collect and record discrete data
operations.	recognise and describe number	use mental recall of addition and subtraction facts to 20 in solving problems involving larger numbers	symbols and diagrams	standard metric units of length, capacity and mass in a range of	group data, where appropriate, in
and internal	relationships including multiple, factor and square	solve whole number problems including those involving	understand a general statement by finding particular examples that match	contexts use standard units of time	equal class intervals
use and interpret coordinates in all	use place value to multiply and	multiplication or division that may give rise to remainders	it	use the properties of 2-D and 3-D shapes	continue to use Venn and Carroll diagrams to record their sorting and
four quadrants	divide whole numbers by 10 or	use a range of mental methods of computation with all	review their work and reasoning	make 3-D models by linking given faces or edges and draw	classifying of information
	100 recognise approximate	operations	develop own strategies for solving problems	common 2-D shapes in different orientations on grids	construct and interpret frequency
	proportions of a whole and use	recall multiplication facts up to 10 × 10 and quickly derive corresponding division facts	use their own strategies within	reflect simple shapes in a mirror line, translate shapes horizontally	diagrams and simple line graphs understand and use the mode and
Key:	simple fractions and	use efficient written methods of addition and subtraction	mathematics and in applying	or vertically and begin to rotate a simple shape or object about its centre or a vertex	range to describe sets of data
Level 1	percentages to describe these order decimals to three decimal	and of short multiplication and division	mathematics to practical contexts	choose and use appropriate units and instruments	ask questions, plan how to answer
I amal 2	places	multiply a simple decimal by a single digit	begin to organise their work and check results	interpret, with appropriate accuracy, numbers on a range of	them and collect the data required in probability, select methods based
Level 2	begin to understand simple ratio	solve problems with or without a calculator check the reasonableness of results with reference to the	present information and results in a	measuring instruments	on equally likely outcomes and
Level 3	use understanding of place value to multiply and divide	context or size of numbers	clear and organised way search for a solution by trying out	find perimeters of simple shapes and find areas by counting squares	experimental evidence, as appropriate
	whole numbers and decimals by	use known facts, place value, knowledge of operations	ideas of their own	use a wider range of properties of 2-D and 3-D shapes and identify	understand and use the probability
Level 4	10, 100 and 1000 and explain the effect	and brackets to calculate including using all four operations with decimals to two places	identify and obtain necessary information to carry through a task and	all the symmetries of 2-D shapes use language associated with angle and know and use the angle	scale from 0 to 1 understand and use the mean of
Level 5	round decimals to the nearest decimal place and order	use a calculator where appropriate to calculate fractions/ percentages of quantities/measurements	solve mathematical problems check results, considering whether	sum of a triangle and that of angles at a point	discrete data and compare two
20,010	negative numbers in context	understand and use an appropriate non-calculator	these are reasonable	reason about position and movement and transform shapes	simple distributions, using the range and one of mode, median or mean
A CONTRACTOR OF THE PARTY OF TH	recognise and use number patterns and relationships	method for solving problems that involve multiplying and	solve word problems and	measure and draw angles to the nearest degree, when constructing models and drawing or using shapes	understand that different outcomes
S. W. S.	use equivalence between	dividing any three digit number by any two-digit number	investigations from a range of contexts	read and interpret scales on a range of measuring instruments,	may result from repeating an experiment
4	fractions and order fractions and	solve simple problems involving ordering, adding,	show understanding of situations by	explaining what each labelled division represents	interpret graphs and diagrams,
A G	decimals reduce a fraction to its simplest	subtracting negative numbers in context solve simple problems involving ratio and direct	describing them mathematically using symbols, words and diagrams	solve problems involving the conversion of units and make sensible estimates of a range of measures in relation to everyday	including pie charts, and draw
001	form by cancelling common	proportion	draw simple conclusions of their own	situations	conclusions create and interpret line graphs
many Primary Tools so :-!-	factors	apply inverse operations and approximate to check	and give an explanation of their	understand and use the formula for the area of a rectangle and	where the intermediate values have
vww.PrimaryTools.co.uk	understand simple ratio	answers to problems are of the correct magnitude	reasoning	distinguish area from perimeter	meaning