Maths Medium Term Planning- Year 2

	Addition & Subtraction		Number and Place Value		Multiplication & Division	
	Solve problems with addition and subtraction		Continue to practice and extend counting skills –		Continue counting in steps of 2, 5 and 10	
	 use a number line to support mental strategies for 		beginning to count forwards and backwards in steps of 2		forwards and backwards	
	addition – jumping in steps of ten and one.		and 5. Use a class number line for support.		• Begin to relate counting in different steps to the	
	 Use knowledge of number pairs and partitioning to 		• Count forwards and backwards in tens from any number.		 2, 5 and 10 times tables Recognise the pattern when counting 2, 5 and 10. Solve problems involving counting in steps of 2, 5 and 10. Continue to solve problems involving grouping and sharing using practical apparatus and pictorial representations. Continue to build upon understanding of repeated addition to solve problems Recognise odd and even numbers Show that multiplication can be done in any order (use arrays to demonstrate / discuss) 	
	bridge through tens numbers when adding / subtracting		Write numbers to at least 100 in numerals and words			
	 Use and apply known and quickly recalled facts to 		Build upon work from year one to consolidate			
	 solve addition and subtraction problems Practice recalling and using addition facts to ten / twenty Use practical resources (counting apparatus / diennes) to model addition / subtraction. Explore the relationship between addition and subtraction – begin to use the inverse operation as a checking strategy – and to solve missing number 		 understanding of place value in two digit numbers, particularly identifying, representing and estimating numbers using different representations (using a range of concrete resources). Partition numbers in different ways. Begin to develop estimation skills, using grouping in tens to check. Compare and order numbers to 100, using <, > and = 			
u r						
	problems. Begin to use known addition and subtraction		symbols.			
	facts to 20 to generate new known facts to 100.		• Consolidate secure understanding of "=" as equivalence.			
L	Show that addition can be done in any order and subtraction cannot. Missing number		Continue to consolidate known number facts.			
	Subtraction carnot. Missing number		Begin to apply knowledge of place value and number			
u 1			facts to solving probler	ns complex missing number		
▲	Fractiona		Sentences	Magguroo		Statiation
	Solve problems involving balves and	lala atifa a	Geometry	Measures	d record the	Statistics
	quarters of shape and quantities	 Identity at 	results using >, < and =		pictograms tally charts blo	
	Make links between unit fractions and		s of a range of 2D	choose and use appropriate st	tandard units th/height in als of time	diagrams and simple tables
	equal sharing and grouping	shapes (II	- including number of any direction (m/cm);	 ask and answer simple 		
	Link fractions understanding to measures	shapes) -		questions by counting the		
	Begin to place fractions (half, quarter) on a pumber line to reinforce the concept of as	 identify a 	nne symmetry. od describe the	 tell and write the time includin 	als of time	Jarter category and sorting the
	 number line to reinforce the concept of as numbers – and that they can add up to more than one. Encourage children to use a range of visualisations and resources to support compare the second second		the number of edges, clock face to show these times		nands on a categories by quantity	
					3.	 ask and answer questions
			ind faces	 (Begin to use money as a cont addition and subtraction of a 	ind different categorical data.	about totalling and comparing
			and sort 2D and 3D	combinations of coins to make		categorical data.
	Continue to reinforce the concept that	shape ac	cording to different	money)		Link to topic work/Science
	fractions of shapes and quantities must be	criteria		(Solve simple problems invo	lving addition	
	equal in size, but might look different.	order an	u arrange compinations	and subtraction of money in the	ne same unit –	
		patte	erns and sequences	Ink to addition and sub	traction)	
		comr	are different shapes			

	Addition & Subtraction	Number and Place	ce Value	Multiplication & Division	
ng	 Add/subtract multiples of ten mentally by applying knowledge of addition and subtraction facts to 10 / 20. Continue to refine addition and subtraction strategies, using mental skills and strategies (see progression in calculation document) Confidently use a number line to add and subtract two digit numbers, using jumps of ten and one or multiples of ten and one, and bridging through ten. Practise addition and subtraction skills in a range of contexts, problems and investigations. Continue to use the inverse operation as a checking strategy Add three one one-digit numbers 	 Continue to practise all counting sincreasingly fluent Ensure fluency with counting in 2's count in 3's. Continue to use and apply knowled numerals and words (to at least 10) Routinely practise and check estime Consolidate use of <, > and = symmetry numbers. Use number facts to 20 to derive at 100 e.g. 15 + 5 = 20 25 + 5 = 30 35 + 5 = 40 Use and apply confidently known number facts and knowledge of placeholder of placeholder	kills so that these become s ,5's and 10's, begin to edge of writing numbers in 00) nation skills abols when comparing and recall related facts to and quickly-recalled ace value to problem	 Solve problems involving counting in steps of 2, 5 and 10. Continue to solve problems involving grouping and sharing using practical apparatus and pictorial representations. Continue to build upon understanding of repeated addition to solve problems Begin to develop use of the arrays to explore the relationship between multiplication and division. Build upon understanding of repeated addition as multiplication. Begin to develop understanding from repeated addition model towards multiplication using the x symbol. Begin to introduce the ÷ symbol. Know that multiplication can be done in any order (commutative) but division cannot. 	
-	Fractions	Geometry	Measures	5	Statistics
Spr	 Introduce ¾ as the first non-unit fraction Solve problems involving fractions of shapes and quantities using practical resources and making links to division. Begin to explore the concept of equivalence – such as 2/4 is equivalent to ½. Continue to place known fractions on a number line Make connections to "time" (half past, quarter past etc. Make links between fractions and measures Compare fractions of shape & complex fractions 	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 and 3-D shapes and everyday objects, recognising and describing their properties. Use mathematical vocabulary to describe position, direction and movement Investigate the concept of rotation or "turn" – in relation to angle as a movement. Computing Continue to use and apply knowledge of quarter, half and three-quarter turns (clockwise and anti-clockwise)	 Measures 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 (Link to addition and subtraction) solve simple problems in a practical context involving addition and subtraction and subtraction of money of the same unit, including giving change (Link to addition and subtraction) compare and order mass and record the results using >, < and = choose and use appropriate standard units to estimate and measure mass (kg/g); use a thermometer to read temperature (°C) 		Pupils should have opportunities to make cross-curricular links, using and applying their skills in this domain to a range of topic-related data, with a particular focus on interpreting data and answering questions about the information in a range of representations. Ensure these opportunities are explicit in topic planning and used to assess knowledge and understanding of statistics. This should also link to computing, with explicit links and assessment opportunities.

	Addition & Subtraction	Number and Pla	Number and Place Value		Multiplication & Division	
mmer	 Solve a range of addition and subtraction problems, choosing a suitable strategy based of the numbers involved (mental methods, number line jottings) Confidently apply known and quickly recalled fatto addition and subtraction calculations Add and subtract numbers using concrete obje pictorial representations and mental methods, including a two-digit number and ones, a two d number and tens, two two-digit numbers and adding three one-digit numbers. Show that addition of two numbers can be done any order (commutative) and subtraction of one number from another cannot. Confidently solve problems using addition and subtraction. Recognise and use inverse relationships – use as a checking strategy where appropriate and solve missing number problems mental work 	 Practice counting in 3's forward class number line for support Recognize the place value of a number. identify, represent and estimate representations, including the r Confidently compare and order > = symbols correctly. Read and write numbers to 100 Use knowledge of place value number facts to solve problems investigations 	 Practice counting in 3's forwards and backwards, using a class number line for support Recognize the place value of each digit in a two-digit number. identify, represent and estimate numbers using different representations, including the number line Confidently compare and order numbers to 100, using <, > = symbols correctly. Read and write numbers to 100 in numerals and words Use knowledge of place value and quickly-recalled number facts to solve problems and apply to investigations 		 Begin to use known multiplication and division facts for 2, 5 and 10 times tables to solve problems. Use known multiplication facts to derive new known division facts (multiplicative reasoning). Solve problems involving odd and even numbers, Build on use of ÷ symbol to solve calculations, Know that multiplication can be done in any order (commutative) but division cannot. Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts. Division with remainders Appling times table knowledge to solve problems 	
	Fractions	Geometry	Measures		Statistics	
S	 Count to ten on a number line in steps of ¼ and ½. Solve problems involving known fractions, using practical resources and a range of representations Compare fractions of number • 	Relate quarter turns to right angles compare and sort common 2-D and 3-D shapes and everyday objects. identify and describe the properties of 2-D shapes, including the number of sides and symmetry in a vertical line identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces identify 2-D shapes on the surface of 3-D shapes, for example a circle on a cylinder and a triangle on a pyramid omparison of 3d shapes.	 Measures 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. choose and use appropriate standard units to estimate and measure capacity (litres/ml) to the nearest appropriate unit, measuring vessels compare and order volume/capacity and record the results using >, < and = solve problems involving all measures in practical contexts missing number increments 		Pupils should have opportunities to make cross-curricular links, using and applying their skills in this domain to a range of topic-related data, with a particular focus on interpreting data and answering questions about the information in a range of representations. Ensure these opportunities are explicit in topic planning and used to assess knowledge and understanding of statistics. This should also link to computing, with explicit links and assessment opportunities.	