

			EYFS			
Autumn 1	Early Mathematical Experiences (5 lessons)	Pattern and Early (10 lessons)	Number	Numbers within 5 (10 lessons)		Consolidation (5 lessons)
Autumn 2	Addition and Subtra (5 lessons) Consolidation (5 lessons)	Laction within 5	Measures (5 lessons)	Shape and sorting (3D) (5 lessons)	Calendar and time (5 lessons)	<u> </u>
Spring 1	Numbers within 10 (10 lessons)		Addition and Subtraction within 10 (5 lessons)		Numbers within 15 (10 lessons)	
Spring 2	Shape and pattern (2D) (5 lessons)	Doubling and halving to 10 (5 lessons)	Grouping and shar (10 lessons)	ing	Numbers within 20 (5 lessons)	Consolidation (5 lessons)
Summer 1	Doubling and halvin (10 lessons - contir	ng to 20 nued)	Addition and Subtraction (10 lessons)		Money (5 lessons)	
Summer 2	Measures (5 lessons)	Depth of numbers (10 lessons)	within 20 Numbers beyond (10 lessons)		20	Problem solving/Investigation Week (5 lessons)



	EYFS									
Term and Overall Unit Focus:	Unit of Work:	Unit overview:	Skills:	Key vocabulary/Star words:	What this looks like in practice (topic related ideas):	Sentence Stems:				
Autumn 1	Early mathematic al experiences	 Classifying objects based on one element Matching equal and unequal sets Comparing and ordering objects and sets 	 counting objects using one-to-one correspondence up to 5 using some number names and number language match equal sets using one-to-one correspondence match unequal sets using one-to-one correspondence compare objects according to size compare sets without counting order objects according to length or height order sets without counting Count objects, actions and sounds 	Match Order Compare	 Matching farm animals to numbers. Comparing numbers of animals in the pen. Comparing the size of different animals. Putting animals in size order. Using cubes to measure height of animals. 	is the same as The is <i>greater/smaller</i> than the				
	Pattern and early number	 Recognise, describe, copy and extend colour and size patterns Count and represent numbers to 3 	 recite numbers past 5. count 1, 2 or 3 objects, images or sounds reliably recognise if a number of objects is the same or different (working with numbers 1, 2 and 3) develop fast recognition of up to 3 objects, without having to count them individually (subitising). recognise the numerals 1, 2 and 3 create representations for numbers 1, 2 and 3 	Recognise, create, same, different, count, pattern, colour, size, big, small, long, short, next, before, extend, count, one, two, how many, same, different	 Creating patterns on a farm e.g. flowers, fences, animals. Comparing characteristics of animals, e.g. which animal has the most spots or what flower has the least petals? Spotting shapes in Farm themed settings. 					



	 Estimate and check by counting 	•	talk about and identify the patterns around them. For example: stripes on clothes, designs on rugs and wallpaper. Use informal language like 'pointy', 'spotty', 'blobs', etc. extend and create ABAB patterns – stick, leaf, stick, leaf. notice and correct an error in a repeating pattern. begin to describe a sequence of events, real or fictional, using words such as 'first', 'then'			
Numbers within 5	 Count up to six objects One more and one fewer Order numbers from 1-6 		say which number is one more or one less than a given number estimate a number of objects and check by counting recognise the numerals 1-5 count reliably with numbers as well as objects from 1 to 5 and understanding when counting that the last number is the total amount create representations for numbers 1- 5 place numbers 1- 5 in order count an amount up to 5 and match it to the corresponding numeral use a range of their own marks and signs which they ascribe mathematical meanings subitise within 5 (without counting) recognise that each counting number is one more than the one before say which number from 1-5 is one more or one less than a given number	Explore, count, estimate, place value, recognise, One, two, three, four, same, different, more, fewer, first, next, before, after, more, fewer, greater, less,	 Placing a number of farm animals on ten frames and counting those animals. Arrange farm related ideas for children to count and compare. 	The number before a given number is one less. The number after a given number is one more. is one more than is one less than



Autumn 2	Addition and subtraction within 5	 Explore zero Explore addition and subtraction 	 understand the composition of numbers up to 5 add and subtract two single-digit numbers estimate a number of objects and check by counting up to 5 introduce the concept of 0 as the empty set represent and use number bonds within 5 use quantities and objects to add and subtract two single-digit numbers solve real world mathematical problems up to 5 	Zero, nothing, none, part, whole, plus, altogether, is equal to, part, whole, plus, is equal to.	- Making London or Christmas related addition and subtraction stories.	 is the whole; is a part and is a part. The whole is and one part is and one part is so the other part must be I know plus is equal to I know is equal to I know is equal to
	Measures	 Explore capacity, weight and length Estimate capacity, length and weight Compare capacity, weight and length 	 use everyday language to talk about size, weight, capacity estimate, measure, weigh and compare and order objects compare objects and quantities to accurately understand the difference between tall, small, short, long, light and heavy. solve size problems related to measures 	Big, bigger, biggest, small, smaller, smallest, full, empty, half full, heavy, heavier, heaviest, light, lighter, lightest, balance, long, longer, longest, short, shorter, shortest, same length.	- Measuring how tall buildings in London are, how heavy they are.	The is the same length as the The is the same length as the The is heavier than the The is lighter than the



	Shape and sorting	 Describe 3D shapes Sort 3D shapes Describing position accurately 	 explore cha objects and mathematic use commo interest in sl with shapes activity e.g. triangular sh explore cha objects and shapes) use position classify and differences) 	racteristics of everyday shapes and use al language to describe them n shape names and show an hape and space by playing by sustained construction flat surface for a building and nape for a roof. racteristics of everyday shapes (focusing on 3-D nal language sort (similarities and everyday objects	Vertex, vertices, face, edge, over, under, above, below, top, bottom, side, on, in, in front, behind, front, back, beside, next to, between,	- Link to Christmas decorations or spotting shapes in landscapes.	I know this is a because · This shape has · A square has · The object is ·
	Calendar and time	 Days of the week Seasons Sequence daily events 	 use everyda days of the measures s ways orders and s everyday lan use ordinal use timers a and experied 	ay language to talk about time, week and months of the year hort periods of time in simple sequences events using nguage related to time numbers: 1st, 2ndlast and calendars to measure time ences	Time, season, month, day, calendar, week, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday, First, next, last, before, after, morning, afternoon, evening, night-time, longer, shorter.	- Activities related to the topic e.g. Christmas Day is tomorrow morning, Santa Claus visits the houses at night and then delivers the presents.	
Spring 1	Numbers within 10	 Count up to ten objects Represent, order and explore numbers to ten 	 say which n less than a g estimate a r by counting counting for with number develop an create represident place numb 	umber is one more or one given number number of objects and check wards and backwards reliably rs from 1 to 10 understanding of zero esentations for numbers 0-10 ers 0-10 in order	One, two, three, four, five, six, seven, same, different, altogether, one more, one greater, one fewer, one less, numbers names 1- 10, order, greater, greatest, more, less,	Activities related to the topic e.g. explorers, festivals.	The number before a given number is one less. The number after a given number is one more.



	One more or fewer, one greater or less	 recognise the numerals 0-10 match the numeral with a group of items to show how many there are up to 10 use ordinal numbers: 1st, 2ndlast understand the conservation of numbers Counts out up to 10 objects from a larger group 	increasing, decreasing, First, second, third, fourth, fifth, sixth, seventh, eighth, ninth, tenth, last, next, before, after, between.	is one more than is one less than The number is made up of
Addition and subtraction within 10	Explore addition as counting on and subtraction as taking away	 estimate a number of objects and check by counting up to 10 adds one and subtracts one with numbers to 10 add and subtract two single-digit numbers and count on or back to find the answer use quantities and objects to add and subtract two single-digit numbers recall some number bonds to 10 Use number names, symbols (+ or -), tallies when comparing numbers and exploring mathematical problems shows interest in large numbers use a range of representations to model adding and subtracting (part-whole model, ten frame, number line, bead string) show awareness that numbers are made up of smaller numbers, exploring partitioning in different ways with a wide range of objects subitise larger numbers by subitising smaller groups within the number e.g. sees six raisins on a plate as three and three 	First, then, now, plus, is equal to, take away.	 is the whole; is a part and is a part. The whole is and one part is and one part is so the other part must be I know plus I know plus I know



	Numbers within 15	•	Count up to 15 objects and recognise different representat ions Order and explore numbers to 15 One more or fewer	•	say which number is one more or one less than a given number estimate a number of objects and check by counting count reliably with numbers from 0 to 15 Create representations for numbers 0-15 place numbers from 0-15 in order considering equal and unequal groups	Number, number names 0 to 15, order, more, fewer, greater, less, same, equal, number line, one more, one fewer, between, before, after, bead string, guess, check, share, ordinal, 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th, first, last, order, sequence, groups of.		is one more than is one less than is unequal. is equal.
Spring 2	Shape and pattern	•	Describe and sort 2- D and 3- D shapes Recognise, complete and create patterns	•	use informal language as well as mathematical terms to describe and name shapes talk about properties of shapes explore characteristics of everyday objects and shapes and use mathematical language to describe them explore characteristics of everyday objects and shapes (focusing on 2-D shapes) classify and sort shapes partitions and combines shapes to make new shapes with 2D and 3D shapes recognise, create, and describe patterns with shapes as well as identifying the pattern rule recognise and create patterns beyond AB patterns and can recognise the unit of repeat	Side, edge, vertex, vertices, curved, straight, sort, criteria, corner, square, circle, triangle, rectangle, straight, curved, pattern, next, same, different.	 Looking at shapes of buildings around the world e.g. what shapes do they have? Looking and comparing shapes from different habitats around the world. 	A has The difference is The similarity is



Doubling and halving to 10	 Doubling within 10 Halving within 10 Relationshi p between doubling and halving 	 use mathematical language to describe size and position solve problems, including doubling, halving, and sharing model doubling using a range of representations (CPA) model halving using a range of representations (CPA) Explore the relationship between doubling Explore the relationship between halving 	Double, altogether, how many, count, half, equal, same, part-whole model.	- Doubling and halving scenarios related to the topic e.g. doubling 5 wands/halving 10 wizards/sharing them between castles.	Each has parts. Count in groups of Double is equal to Half ofis equal to
Grouping and sharing	 Counting and sharing in equal groups Grouping into fives and tens Relationshi p between grouping and sharing 	 solve practical problems that involve combining groups of 2, 5 or 10, or sharing into equal groups explore counting on in steps of 2 from zero explore counting on in steps of 5 from zero explore counting on in steps of 10 from zero share/group a number of objects into 2's, 5's and 10's solve practical problems that involve grouping and sharing 	Groups of, each group, altogether, same, different, number, equal groups, same number, pair, groups of two, bead string, each group, altogether, is equal to, equal groups, same number, 0, 10, 20, 30, 40, 50, share, unequal.	 Sharing magic wands between wizards. Skip counting numbers along a castle/skip counting using objects related to magic. Solving potion related problems. 	This is not a whole group of because only part of the has in. A whole can be split into more than two parts in lots of different ways
Numbers within 20	 Count up to 10 objects Represent, order and explore 	 count reliably with numbers from one to 20 create representations for numbers 0-20 say which number is one more or one less than a given number solve practical problems that involve grouping and sharing 	Number names 0– 20, more, fewer, order, one group of ten, numbers within 20, pattern, one more, one greater, one fewer, one less,	- Representing numbers related to the topic e.g. 5 wands, 7 wizards.	is one more than is one less than



		numbers to 15 • One more or fewer	•	estimate a number of objects and check by counting, considering equal and unequal groups	between, before, after, groups, first, last, order.		
	Doubling and halving to 20	 Doubling within 20 Halving within 20 Relationshi p between doubling and halving 	•	solve problems, including doubling, halving and sharing model doubling using a range of representations (CPA) model halving using a range of representations (CPA) Explore the relationship between doubling Explore the relationship between halving	Double, altogether, how many, count, half, equal, same, part-whole model.	- Doubling and halving scenarios related to the topic e.g. doubling 5 wands/halving 10 wizards/sharing them between castles.	is equal. is unequal. Double is Half of is
Summer 1	Addition and subtraction	 Commutati vity Explore addition and subtraction Compare two amounts Relationshi p between doubling and halving 	•	estimate a number of objects and check by counting up to 20 add and subtract two single-digit numbers and count on or back to find the answer explore the relationship between addition and subtraction solve problems, including doubling, halving and sharing say which number is one more or one less than a given number from 1 - 20 use quantities and objects to add and subtract two single-digit numbers	Part, whole, plus, altogether, is equal to, First, then, now, subtract, minus, part, whole, is equal to, more, fewer, is equal to, same, different, compare, double, add, half, share between.		is the whole; is a part and is a part. plusis equal to subtract is equal to Each hasparts Count in groups of
	Money	 Coin recognition and values Combinatio ns to total 20p 	•	compare quantities and objects to solve problems use everyday language to talk about money, recognise coins up to 50p and their values compare the value of coins	1p, 2p, 5p, 10p, 20p, 50p, £1, coins, more, less, money, pence, penny, pennies, much?, altogether, pound.	 Introduce money from around the world – in different countries. Climate change shops – selling environment friendly items etc. 	is worth



Summer Depth of numbers within 20 • Explore numbers shards • Solve problems including grouping, sharing, doubling and halving objects and solve and solve or one weight capacity, position, distance, time and money to compare quantities and objects and solve problems • Use everyday language to talk about size, weight capacity, position, distance, time and money to compare quantities and objects and solve problems full, mearly full, half empty, half empty, the same, most, least, heavey, heavier, heaviest, the same, weight, more, less, about, length, same, different, how long, longer, longest, short, shorter, shorts, tall, taller, tallers, having, numbers • Make comparisons of height of themselves and discuss height and weight from being a baby to now. The is the same length as the Summer Depth of numbers and patterns • Explore numbers and extend patterns • solve problems including grouping, sharing, doubling and halving esplore tand explain • solve problems including grouping, sharing, doubling and halving • Doubling and halving esplore tand explain • Doubling and halving problems based on own interests and fascinations • Doubling and halving esplore tand explain • Doubling and halving problems related to how they have changed a c, height, age, shoe size etc. • Doubling and halving problems based on own interests and fascinations • See above. Numbers • One more one less • Say which number is one more or one backwards • twenty, thirty, forty, count on, one more • wenty, thirty, forty, count on, one more • See above.								
Measures • Describe capacities • use everyday language to talk about size, weight, capacity, position, distance, time and morey to compare quantities and objects and solve problems and order objects full, nearly full, half full, mearly full, ha			 Change from 10p 	•	use quantities and objects to count on and back to add and subtract			
Summer 2Depth of numbers within 20• Explore numbers and strategies• solve problems including grouping, sharing, doubling and halving • Records using marks that they can interpret and explain • Begins to identify own mathematical problems based on own interests and fascinationsGrouping, sharing, doubling, halving, numbers.• Doubling and halving problems related to how they have changed e.g. height, age, shoe size etc.See above.2• Recognise and extend patterns • Apply number, shape and measures knowledge • Count forwards and backwards• say which number is one more or one less than a given numberGrouping, sharing, doubling, halving, numbers.• Doubling and halving problems related to how they have changed e.g. height, age, shoe size etc.		Measures	 Describe capacities Compare volumes Compare weights Estimate, compare and order lengths 	•	use everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects and solve problems estimate, measure, weigh and compare and order objects order two or three items by length or height order two items by weight or capacity compare objects and quantities solve size problems involving measures explore measuring objects using non- standard units	full, nearly full, half full, empty, nearly empty, half empty, the same, most, least, heavy, heavier, heaviest, light, lighter, lightest, the same, weight, more, less, about, length, same, different, how long, longer, longest, short, shorter, shortest, tall, taller, tallest,	- Make comparisons of height of themselves and discuss height and weight from being a baby to now.	The is the same length as the The is the same length as the The is heavier than the The is lighter than the
Numbers • One more • say which number is one more or one twenty, thirty, forty, See above. beyond 20 one less ess than a given number count on, one more count on, one more	Summer 2	Depth of numbers within 20	 Explore numbers and strategies Recognise and extend patterns Apply number, shape and measures knowledge Count forwards and backwards 	•	solve problems including grouping, sharing, doubling and halving Records using marks that they can interpret and explain Begins to identify own mathematical problems based on own interests and fascinations	Grouping, sharing, doubling, halving, numbers.	- Doubling and halving problems related to how they have changed e.g. height, age, shoe size etc.	See above.
		Numbers beyond 20	 One more one less 	•	say which number is one more or one less than a given number	twenty, thirty, forty, count on, one more		See above.



	 Estimate and count Grouping and sharing 	 solve problems including grouping and sharing estimate a number of objects and check by counting explore counting on and back from any number within 50 solve practical problems that involve combining groups of 2, 5 or 10, or sharing into equal groups 	than, one fewer/less than, estimate, check, greater than, fewer than, share, equal, unequal, more than, fewer than,	
Problem Solving		 show an interest in number problems begin to identify own mathematical problems based on own interests and fascinations solve problems including doubling, halving and sharing 		See above.



EYFS Maths Meeting								
Autumn	Spring	Summer						
Number:	Number:	Number:						
 Recognising numerals to 10 Show an awareness of even and odd numbers to 5 Count reliably with numbers from 1 to 10 both forwards and backwards along a number line Say which number is one more or one less than a given number within 10 Add and subtract two single-digit numbers Represent and use number bonds within 5 Subitising within 5 Composition of numbers to 5 Shape: Recognise, describe and create patterns that are the same and different Explore characteristics of everyday objects and shapes and use mathematical language to describe them Use common shape names Responds to and uses language of position and direction e.g. on top of. Measure: Order objects according to length or height and use everyday language to talk about size, weight, capacity 	 Subitising within 10 subitise larger numbers by subitising smaller groups within the number e.g. sees six raisins on a plate as three and three Show an awareness of even and odd numbers to 10 Say which number is one more or one less than a given number within 20 Count reliably with numbers from 1 to 10 (Spring 1) 1 - 20 (Spring 2) forwards and backwards Represent and use number bonds within 5 and recall these automatically represent doubling facts using resources and begin to recall these automatically using numbers to 10 (Spring 2) Use a range of representations to model adding and subtracting Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same Share/group a number of objects into 2's, 5's and 10's equally Composition of numbers to 10 	 Subitising 5, 10 and 15. Count reliably with numbers from 1 - 20 forwards and backwards Show an awareness of even and odd numbers to 20 Explore counting on and back from any number within 50 in 2's, 5's and 10's. Double and half numbers (within 10) Add and subtract two single-digit numbers and count on or back to find the answer using a range of strategies (ten frame, number line etc.) Composition of numbers to 5, 10 and 15. Represent and use number bonds within 5 and 10 and recall these automatically e.g. number bond tennis represent doubling facts using resources and recall these automatically using numbers to 10 e.g. double tennis Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same Shape: Naming and matching 2D and 3D shapes and use mathematical language to describe them 						
 Days of the week and months of the year 	 Explore, recognise, naming and matching 2D 	including face, edge, side and vertices						
 Orders and sequences events in everyday life 	and 3D shapes and use mathematical	Measure:						
and stories	language to describe them	 Compare two or more objects and quantities 						
Money:		in length, weight and capacities						



Introduce coins 1p, 2p, 5p and 10p	Ordering lengths and using comparative	Time:
	vocabulary	Introduce o'clock
	Time:	
	 Days of the week (today, tomorrow and yesterday) and months of the year 	
	 Introduce the clock and talk about familiar 	
	times of the day	
	Money:	
	 Use everyday language to talk about money, recognise coins up to 50p and their values 	
	Measures:	
	 use spatial language, including following and giving directions, using reactive terms and describing what they see from different view 	
	points	



	Year 1									
Autumn 1	Numbers and Place Value wi (10 lessons)	thin 10	Addition and Subtraction within 10 (10 lessons)Shapes and Pa (10 lessons)			rns				
Autumn 2	Numbers and Place Value wi (10 lessons)	thin 20	Addition and Subtra (10 lessons)	action within 20	<u> </u>	Consolidation (5 lessons)				
Spring 1	Time (10 lessons)	Exploring calculation strategies within 20 (5 lessons)	Addition and Subtraction within 20 (10 lessons)							
Spring 2	Fractions (5 lessons) Measures: Length (10 lessons)		and Mass Numbers and Place Value to 50 (10 lessons)		ce Value to 50	Consolidation (5 lessons)				
Summer 1	Numbers 50 – 100 and beyor (10 lessons) 1 st lesson consolidates nur	Addition and subtraction (10 lessons)			Money (5 lessons)					
Summer 2	mmer 2 Multiplication and Division (10 lessons)			Measures: Capaci (10 lessons)	ity and Volume	Problem solving/investigation week (5 lessons)				



	Year 1								
Term and Overall Unit Focus	Unit of Work:	Unit overview:	Skills:	Key vocabulary:	What this looks like in practise (topic related):	Sentence Stems:			
Autumn 1	Numbers and Place Value within 10	 Representing Numbers Composition of numbers Doubling and halving One more and one less Comparison of numbers 	 sort objects based on an amount provided count to ten, forwards and backwards, beginning with 0 or 1, or from any given number as well as counting objects ranging from 0-10 identify and represent numbers using objects and pictorial representations including the number line compare groups using the language of: equal to, more than, less than (fewer), most, least read and write numbers to 10 in numerals and words given a number, identify one more and one less introduce >, < and = symbols order numbers and groups of objects introduce ordinal numbers including 1st, 2nd and 3rd. count in multiples of twos, fives and tens double and halve numbers within 10 estimate numbers within 10 	One, two, three, four, five, six, seven, eight, nine, ten, the same, as many, more, fewer, is equal to, part, whole, number bond, represent, double, equal, equal parts, half, halve, inverse, compare, order, less, greater, greatest, smaller, smallest.	- Using farm animals to count, find one more and represent different numbers. E.g. how many cows are there?	One more than is. One less than is. I know there is cubes because is greater than is smaller than Half of Double is.			
	Addition and subtraction within 10	AdditionCounting onCommutativity	 read, write and interpret mathematical statements involving addition (+) and equals (=) signs begin with using 	Equation, add, addition, sign, symbol, plus, is	- Using farm related objects to represent	I know add is			



	 Partitioning Counting back Subtraction Related facts 	 conceptual notations of a part whole model combining two quantities and partitioning quantities read, write and interpret mathematical statements involving subtraction (–) and equals (=) signs begin with using conceptual notations of a part whole model combining two quantities and partitioning quantities introduce fact families and addition facts represent and use number bonds to 10 as well as beginning to compare these provide systematic methods for number bonds to 10 (ten frame; numicon; bead strings) solve one-step problems that involve addition to 10 and 0 using concrete objects and pictorial representations, and missing number problems – using first then and now. 	equal to, altogether, part, whole, count on, sum, subtract, minus, number line, related, total.	addition and subtraction e.g. using animals placed on a ten frame or part whole model.	I know is subtract is If I know then I know Two parts make a whole. is the whole; is a part and is a part.
Shape and patterns	 Identifying, classifying, sorting and describing 3D shapes Identifying, classifying, sorting and describing 2D shapes Repeating patterns 	 recognise and name common 2-D shapes, including: 2-D shapes [for example, rectangles (including squares), circles and triangles recognise and name common 3-D shapes, including: 3-D shapes [for example, cuboids (including cubes), pyramids and spheres make comparisons and share differences of structures of the same shape e.g. long fat cylinder, short thin cylinder however they are both cylinders sort and classify 2D shapes 	Cube, cuboid, cylinder, cone, sphere, pyramid, rectangle, square, circle, oblong, triangle, side, corner, vertex, vertices, curved, straight, pattern, repeating pattern, before, after, next, bigger, smaller, between, last, last but one, next to, in	 Using a farm house to look at different 3D shapes they can see. Using 2D/3D shapes to create pictures of animals or farms. 	A has The difference is The similarity is



		 Position, direction and movement 	 make, interpret and create 2D and 3D shape patterns compose and decompose 2D shapes e.g. arranging shapes to match a 2D image be able to find shapes within shapes compose and decompose 3D shapes to make a model e.g. interlinking cubes to make an L and being able to compare two of the same shapes in different positions describe position, direction and movement, including whole and half turns 	front of, under, left, right, between, above, forward, quarter turn, algorithm, backward.		
Autumn 2	Numbers and Place Value within 20	 Representing numbers to 20 Number lines One more and one less Comparing Ordering numbers Patterns Doubles and halves Odd and even 	 count to twenty, forwards and backwards, beginning with 0 or 1, or from any given number count, read and write numbers from 1 to 20 in numerals and words making reference to odd and even numbers count one more and one less from a given number to 20 using a range of strategies compare groups of objects and numbers using language; greater, less, more, fewer and difference. identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least count in multiples of twos and fives double and halve numbers within 20 	Eleven, twelve, thirteen, fourteen, fifteen, sixteen, seventeen, eighteen, nineteen, twenty, represent, count on, number line, more than, less than, before, after, order, difference, tens, ones, greater, less, more, fewer, compare, value, increase, decrease, pattern, double, half, equal, odd, even, fair, unfair.		 is odd. is even. One more than is. One less than is greater than is smaller than
	Addition and subtraction within 20	 Counting on Counting back Known facts Make ten 	 Find, represent and use number bonds and related subtraction facts within 20 add one-digit and two-digit numbers to 20, including zero subtract one-digit and two-digit numbers to 20, including zero 	First, then, now, more, number line/track, represent, add, addition, equation, subtract, subtraction.	- Using crash bang, winter wonderland objects to use for addition	I know add is



			 read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems begin to estimate to check answers 	equation, take away, number bond, known fact, is equal to, 'make ten' strategy, partition, minus, model.	and subtraction.	I know is subtract is If I know then I know is the whole; is a part and is a part.
Spring 1	Time	 Ordering months Sequencing events Minutes and seconds O'clock and half past Read and write o'clock and half past Time word problems Position, direction and movement 	 recognise and use language relating to dates, including days of the week, weeks, months and years compare, describe and solve practical problems for time for example, quicker, slower, earlier, later and measure and begin to record time in hours, minutes, seconds sequence events in chronological order using language for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening tell the time to the hour and half past the hour and draw the hands on a clock face to show these times compare time describe position, direction and movement, including whole, half, quarter and three-quarter turns, with reference to the clock face 	January, February, March, April, May, June, July, August, September, October, November, December, month, year, date, before, after, next, then, first, minute, second, clock, longer, shorter, minute hand, second hand, hour hand, half past, time, half way between, o'clock, straight up, straight down, whole, quarter turn, clockwise, anti- clockwise.	- Using activities for time related to the topic. E.g. at 5 o'clock the fire of London started	The time is
	Exploring calculation	Known factsNear doubles	• represent and use number bonds and related addition and subtraction facts within 20	Part, whole, related, known fact, number bond, double, near		I know add is



strategies within 20	 Make 10 Understanding the = sign 	 add and subtract one-digit and two-digit numbers to 20, including zero read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems using calculation strategies including: known fact, make 10, near doubles 	double, 'make ten' strategy, partition, addition, subtraction, equal, is equal to, equation, plus, efficient.	I know is subtract is is the whole; is a part and is a part. If I know then I know
Addition and subtraction within 20	 More and fewer Difference Greater and less Make ten – finding the difference Subtraction and addition equations Solving problems 	 find, represent and use number bonds and related addition and subtraction facts within 20 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 (Y2) read, write, and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems begin to estimate to check answers 	Compare, more, fewer, difference, greater than, less than, 'make ten', subtract, equation, add.	I know add is I know is subtract is If I know is If I know is the whole; is the whole; is a part and is a part.
Fractions	 Identify half of shape 	 recognise, find and name a half as one of two equal parts of an object, shape or quantity 	Fraction, part, whole, compare, difference, equal t	- Using objects Half of is related to the topic to find



Spring 2		 Identify half of a quantity Identify quarter of a shape Identify quarter of a quantity Half and quarter turns 	 recognise, find and name a quarter as one of four equal parts of an object, shape or quantity be able to write correctly ½ and ¼, 2/4, 3/4 understanding that the line is straight, the numerator is the amount of parts and denominator is how many parts altogether connect halves and quarters to the equal sharing and grouping of sets of objects and to measures, as well as recognising and combining halves and quarters as parts of a whole 	parts, unequal parts, shape.	one half and one quarter of e.g. half of 6 wands.	Double is The numerator is The denominator is Two halves make a whole. 4 quarters make a whole.
	Measures: Length and Mass	 Comparing lengths Non-standard units Standard units Doubling and halving of lengths Comparing weight Weighing objects using non-standard units 	 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 measure and begin to record the following: lengths and heights; mass/weight use both standard and non-standard units to use manageable common standard units using measuring tools, such as a rule, weighing scales and containers 	Part, whole, equal, unequal, half, divide, half, share, divide, quarter, divide, clockwise, anti- clockwise, three- quarter.	- Measuring the height of castles and the length of their wands/hats. - Weighing their potions.	The is heavier. The is lighter. The is smaller. The is taller. The is longer. The is the same length as the



Numbers and Place Value to 50	 Sequencing numbers Groups of 10 Exploring tens and ones Place value Compare and order numbers using a place value chart Compare and order numbers using a number line Counting in 2's and 5's Number patterns 	 count to 50 and 100, forwards and backwards, beginning with 0 or 1, or from any given number count in twos, fives and tens. count, read and write numbers from 1 to 50 and to 100 in numerals and begin to in words identify, represent and compare numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least given a number, identify one more and one less order numbers within 50 using a place value chart and dienes recognise the place value of each digit in a two-digit number (tens, ones) 	More, less, numbers to 50, multiple of 10, group of 10, twenty, thirty, fourty, fifty, pattern, ones, digit, left, right, place value, part, whole, greater, greatest, less, least, smaller, smallest, order, compare, between, less than, more than, greater than, groups of five, pattern, increase, decrease.		The is the same length as the The is heavier than the The is lighter than the One more than is. One less than is.
Numbers 50 to 100 and beyond	 Counting in 10's and on in 1's Place value up to 99 	 represent and use number bonds and related subtraction facts within 20 and beyond based on their knowledge of number bonds 	I all, taller, tallest, short, shorter, shortest, long, longer, longest, low, lower, high, higher,	-Comparing how temperatures have changed	than



Summer 1	Addition and	•	One more, one less, ten more, ten less, Comparing using a number line and place value chart Sequencing numbers Number patterns	•	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 (Y2) read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems add and subtract one-digit and two-digit numbers, including zero, regrouping and bridging 10 estimate to check answers represent and use number bonds and	height, length, measure, measurement, close to, roughly, nearly, about, about the same as, size, compare, unit, metre stick, metre, one half, estimate, double, balance, heavy, light, heavier, lighter, heaviest, lightest, weight, mass, level, approximately, predict, kilogram (kg). Groups of ten, tens,	in different habitats. -Exploring how climate change is affecting the number of trees and animals.	The number has tens and ones. One more than is One less than is The pattern is increasing by The pattern is decreasing by
	subtraction within 100	•	Add and subtract two digit numbers and ones Add subtract two digit numbers and ones with regrouping	•	related subtraction facts within 20 and beyond based on their knowledge of number bonds 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 (Y2) read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems	ones, count on, place value, dienes, hundreds, place value chart, number bond, multiple of ten, part-whole model, one more, ten more, one less, ten less, one fewer, ten fewer, greater than, less than, compare, most, least, equal to, increase, decrease, sequence, pattern.		 I need to exchange my ten ones for one ten. I need to exchange my one ten for ten ones. This pattern is increasing. This pattern is decreasing.



	Money	 Properties of coins Value Comparing amounts Exchanging money for objects Paying and giving change 	 add and subtract one-digit and two-digit numbers, including zero by bridging and regrouping estimate to check answers discuss and solve one step problems that involve addition and subtraction, using pictorial representations, concrete objects and missing number problems understand the properties of coins including shape and colour recognise and know the value of different denominations of coins based on knowledge of what they are made up of solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems 	Coin, round, heptagonal, gold, silver, copper, pence, penny, value, worth, notes, pound, greatest value, least value, most, add, subtract, column, row, buy sell, afford, total, altogether, change.	- Set up class shops related to what they might sell in their shop when they grow up. - Role playing visiting the shops when they are an adult	This isp coin.
Summer 2	Multiplication and division	 Doubling and halving Repeated addition Division as sharing Division as grouping Arrays Halves and quarters 	 recognise, find and name a half and double as one of two equal parts of a quantity counting in two's, fives and tens – skip counting in 2's or in multiples e.g. 10, 20, 30 or 1 ten, 2 tens, 3 tens arrays; make connections between arrays, number patterns grouping and sharing small quantities to begin understanding multiplication and division; doubling numbers and quantities' finding simple fractions of objects, number and quantities by adding equal groups, making equal groups by grouping and making equal groups by sharing 	Double, half, equal parts, whole, halve, equal groups, unequal groups, groups of, lots of, altogether, repeated addition, sides, share, fair, equally, array, column, row, fraction, divide, quarter.		Each parts. has parts. Count in groups of Double is equal to Half ofis equal to I know X =



		•	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.			I know / =
Measures: Capacity and Volume	 Comparing capacity Comparing volume Halves and quarters Standard units Difference and distance Using length and weight 	•	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 measure and begin to record the following: lengths and heights; mass/weight; capacity and volume	Compare, capacity, greater, smaller, unit, about, volume, half, quarter, equal, litre, standard unit, distance, length, difference, measure, same, weighing scales, gram.	-Comparing how our height has changed as we grow up.	The is the same length as the The is the same length as the The is heavier than the The is lighter than the
Problem Solving		•	practise ordinal numbers and solve simple concrete problems discuss and solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems solve problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with support of teacher			



	Year 1	
	Maths Meeting	
Autumn	Spring	Summer
 Number: Count to twenty, forwards and backwards, beginning with 0 or 1, or from any given number in 2's, 5's and 10s. Double and halve numbers within 10 Represent and use number bonds within 10 (using a range of representations including part-whole model) Shape: Name, recognise, sort and classify 2D and 3D shapes Measures: Compare, describe and order capacities, lengths and heights Time: Tell the time to the hour and introduce half past the hour Measure and begin to record time (hours, minutes, seconds Sequence events in chronological order using language (for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening) 	 Number: Count to twenty, forwards and backwards, beginning with 0 or 1, or from any given number in 2's, 5's and 10s using skip counting – as well as counting up in odd numbers Represent and use number bonds within 10 (using a range of representations including part-whole model) Double and halve numbers within 20 Using calculation strategies including: known fact, make 10, near doubles Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs and use inverse to check answers Sharing and grouping of sets of objects up to 20 Shape: Name, recognise, sort and classify 2D and 3D shapes using mathematical language to describe them Measures: Measure and begin to record the following: lengths and heights; mass/weight; capacity and volume 	 Number: Addition and subtraction strategies including: known fact, make 10, near doubles Recognise the place value of each digit in a two-digit number (tens, ones) Explore repeated addition on a part whole model (make links to multiplication and division) Shape: Name, recognise, sort and classify 2D and 3D shapes using mathematical language to describe them Time: Describe position, direction and movement, including whole, half, quarter and three- quarter turns, with reference to the clock face Money: Recognise and know the value of different denominations of coins and notes Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations
first, today, yesterday, tomorrow, morning, afternoon and evening) Money:	 Measure and begin to record the following: lengths and heights; mass/weight; capacity and volume Time: 	and subtraction, using concrete objects and pictorial representations



-				
•	Recognise and know the value of different denominations of coins and notes	•	Tell the time to the hour and half past the hour and 1 or 2 hours before/after	
		Mo	oney:	
		•	Recognise and know the value of different	
			denominations of coins and notes	
		•	Begin to be able to add denominations of	
			coins together	
		•	Begin to exchange coins for others of equal	
			amounts e.g. 5p = 5 1ps.	



			Year 2			
Autumn 1	Numbers and Place Valu (10 lessons)	e within 100	Addition and Subtraction (10 lesso	n of 2-digit numbers ons)	Addition and subtraction word problems (5 lessons)	Graphs (5 lessons)
Autumn 2	Measures: Leng (10 lessons)	gth	Multiplication and Division: 2, 5 and 10 (15 lessons)			Time (5 lessons)
Spring 1	Time (5 lessons)		Fractions (10 lessons)		Addition and Subtraction of 2 digit numbers (10 lessons)	
Spring 2	Money (10 lessons)	Face	e, shapes and patterns; lines (15 lessons)	s and turns	Measure (5 les	es: Mass sons)
Summer 1	Exploring calculation s (10 lessons)	strategies	SATS Prep SATS Week Consolidation (5 lessons) (5 lessons)		lidation sons)	
Summer 2	Capacity and Vol (10 lessons)	ume	Numbers with (10 lesso	nin 1000 ons)	Multiplication and Division: 3 and 4 (10 lessons)	



			Year 2			
Term and Overall Unit Focus:	Unit of Work:	Unit overview:	Skills:	Key vocabulary:	What this looks like in practise (topic related):	Sentence Stems:
Autumn 1	Numbers and Place Value within 100	 Place value Tens and ones 2-digit partitioning Representi ng 2 numbers Comparing numbers to 100 Ordering numbers to 100 Number patterns Odd and even 	 count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward using bead strings, number lines and 100 squares with increasing fluency 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 read and write numbers to at least 100 in numerals and in words use place value and number facts to solve problems and compare numbers within 50 and beyond Connect the way that numerals are written and their value e.g. 2 groups of 10 and 3 ones is 23 using place value of tens and ones to add numbers together and represent numbers using a part whole model represent numbers to 100 by composing and decomposing two-digit numbers using standard and nonstandard partitioning 	Group, ten, altogether, strategy, left over, ones, tens, 1-digit number, 2-digit number, value, worth, partition, represents, compare, greatest, smallest, greater than, less than, is equal to, order, increasing, decreasing, more, less, forwards, backwards, counting, odd, even.		The number is greater than The number is smaller than This number has tens andt



		 identify, represent and estimate numbers to 100 using different representations, including the number line Reason about the location of any two digit number in the linear number system, including identifying the previous and next multiple of 10 			
Addition and subtraction of 2-digit numbers	 Number bonds to 20 (addition) Number bonds to 20 (subtractio n) Adding and subtracting ones from a 2-digit number Add and subtract multiples of 10 Add and subtract tens from a 2-digit number Add and subtract 	 recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 of 10s recall and use addition and number bonds to 10, 20 and use these to reason with and calculate bonds to and within 20 recognising other associate additive relationships find 10 more and 10 less from any given number add and subtracts 10's show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot subtracting tens or ones by crossing the 10 barrier add and subtract number, explaining their method verbally using concrete objects, pictorial representations, and mentally, including: a two-digit number and tens; two two-digit numbers; adding three one-digit numbers 	Whole, part, tens, ones, partition, 'if I know then I know", number bonds, doubles, near doubles.	 Using farm animals as representations e.g. 5 cows on a ten frame and 5 pigs make ten (making link to the number bond). Use the topic as a context for addition and subtraction e.g. the farmer had 10 sheep but sold 5 of them. How many does he have left? 	I know + = If I know then I know + = I need to exchange my ten ones for one ten. I need to exchange my one ten for ten ones.



	 2 digit numbers Adding 3 digit numbers 	•	Recognise the subtraction structure of 'difference' and answer questions of the form, "How many more?" calculating/adding with three numbers			
Addition and subtraction word problems	 Introduce bar models as a representat ion and create, label and sketch bar models 	•	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 recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems estimate the answer to a calculation and use inverse operations to check answers	Whole, part, add, subtract, bar model, value, known, unknown, worth, more, fewer, amount, difference.	- Use the topic as a context for addition and subtraction e.g. the farmer had 10 sheep but sold 5 of them. How many does he have left?	I know + = If I know then I know + =
Graphs	 Pictograms Block diagrams Tally chart Scaled pictogram 	•	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 record, interpret, collate, organise and compare information read scales* where not all numbers on the scale are given and estimate points in between (The scale can be in the form of a number line, a practical situation or a graph axis.)	Data, pictogram, table, collect, sort, interpret, block diagram, tally, scaled.	- Use Crash! Bang! unit topic of Firework night etc. for recording and reading data. - How many fireworks have there been?	This graph is increasing by The graph shows I can see



	Measures: Length	 Measuring length in m Comparing lengths in m Measuring in cm Comparing length in cm Measuring lines Drawing lines Length word problems 	•	to compare measures including simple multiples such as 'half as high', 'twice as wide'. measure using cm, m and mm and record information using the correct standard abbreviations compare and order length and record the results using >, < and = choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm) to the nearest appropriate unit, using rulers and scales apply knowledge of numbers to 100 to read scales to the nearest appropriate standard unit in the context of length (m/cm)	Length, long, short, longer, shorter, shortest, longest, measure, metre, estimate, longer than, shorter than, ruler, centimetre, about, exactly, the same as, known, unknown, whole, part.	- Use the topic as a context for measuring length e.g. the hospital is 25cm tall etc.	The is heavier. The is lighter. The is smaller. The is taller. The is longer. The is the same length as the The is the same length as the
Autumn 2	Multiplication and division: 2, 5, and 10	 Multiplicati on symbols Commutati vity Division as sharing and grouping Multiplicati on problems 	•	grouping and sharing small quantities to begin understanding multiplication and division; doubling numbers and quantities' finding simple fractions of objects, number and quantities, adding equal groups, making equal groups by grouping and making equal groups by sharing calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) signs	Multiplication, repeated addition, groups of, rows, columns, part, whole, commutative, divide, share, equal, group, value, multiply, skip count, fives, two, ten.	Crash! Bang!: - There are 10 lots of fireworks, how many is that in total? - Some fireworks release 2 at a time. How many will there be after 1, 2, 3, or 4 have been set off?	Each has parts. Count in groups of Double is equal to Half ofis equal to



	•	Doubling Skip counting in 2's, 5's and 10's Patterns in 2, 5, 10 times tables Word problems	•	solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers and use them to solve simple problems, demonstrating and understanding of commutativity as necessary show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot connect the multiplication table to place value, and the 5 multiplication table to the divisions of a clock recall and use multiplication and division facts for 2, 5 and 10 and make deductions outside known multiplication facts by dividing by each number		 Winter Wonderland: Each child has 10 presents. There are 5 children? How many in total? Use presents or snowflakes to represent arrays. 	I know X = I know / =
Time	•	24 hours in the day	•	know the number of minutes in an hour and the number of hours in a day	Time, hour, day, night, morning,	- Use the topic to contextualise	The time is
	•	60 minutes	•	know o'clock, half past, quarter past and	afternoon, evening,	activities e.g	The small hand is
		in an hour		quarter to	midday, midnight,	Florence	the hour hand.
	•	Quarter	•	tell, read and write the time to five minutes,	hour, minute, hour	Nightingale	The birth and i
		past		including quarter past/to the hour/half hour	hand, minute hand,	worked for 5	The big hand is
	•	Quarter to			scale, quarter past,	hours in the	the minute hand.



Spring 1		 5 past 5 to Sequencin g events Duration in minutes and hours 	 and thes com find beco anal 	d draw the hands on a clock face to show se times npare and sequence intervals of time to I durations of time and compare them come fluent in telling the time on an alogue clock and recording it	half past, o'clock, quarter to, earlier, later, duration, start, finish.	hospital. If she started at 4 o'clock. When would she finish? - First Florence Nightingale went to the hospital and then she treated a patient.	
	Fractions	 Fractions and division Writing a fractions Half of shapes Thirds and quarters of shapes Unit and non-unit fractions 	 Mak Iden and obje mus write reco unit cour 	ke equal parts ntify, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ d $\frac{3}{4}$ of a length, number, shape, set of ects or quantity and know that all parts st be equal parts of the whole the simple fractions for example, $\frac{1}{2}$ of 6 = 3 ognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$ t fractions and non-unit fractions int in fractions	Fraction, equal parts, whole, divide, one, share, half, quarter, numerator, denominator, vinculum, one half, one third, one quarter, halves, part, the same as.		Half of is is is is The numerator is The denominator is The denominator is The denominator is The denominator is The shape shows 4 quarters make a whole.
	Addition and subtraction of 2-digit numbers	 Regroupin g including make 10 Regroupin g including 	 recato 20 facts show done 	all and use addition and subtraction facts 20 fluently, and derive and use related ts up to 100 wy that addition of two numbers can be he in any order (commutative) and	Make ten, regroup, partition, tens, ones, number line, number bonds, dienes, bar model, round and adjust		I know + = If I know then I know



		1	aubtraction of one number from another	add aubtraat		
(regrouping	round and		subtraction of one number from another			
and bridging)	adjust		cannot	double, near		=
	 Regroupin 	•	add and subtract numbers using concrete	double.		·
	g including		objects, pictorial representations, and			
	near		mentally, including: a two-digit number and			I need to
	doubles		ones: a two-digit number and tens: two two-			exchange my ten
	doubled		digit numbers: adding three one-digit			ones for one ten.
			numbers, adding three one-digit			
						I need to
		•	solve problems with addition and			exchange my one
			subtraction: using concrete objects and			ten for ten ones.
			pictorial representations, including those			
			involving numbers, quantities and measures;			
			applying their increasing knowledge of			Addition can be
			mental and written methods			done in any way
			estimate the answer to a calculation and use			and I will still get
			inverse energiane to check energy			the same answer
		•	Using Make Ten and regrouping for			
			addition			
		٠	Using 'Make Ten' and regrouping for			
			subtraction			
		•	Using near multiples to add and subtract			
		٠	Mentally adding with near doubles			
Money	Recognise	•	fluent in counting and recognising coins	Penny, pennies,	- Set up a magic	The change is
	coins	•	recognise and use symbols for pounds (£)	pence, value,	shop for children	·
	 Pounds 		and pence (p); combine amounts to make a	compare, greater,	to buy potions	
	 Finding a 		particular value	lower, one pound,	and wands etc.	This coins is a
	total	•	counting money e.g. pence, pounds, notes	pounds, coin, note,		
	amount		and coins	total, altogether,		
	with the	•	find and use different combinations of coins	same as, equal to,		I can make
	same coins		that equal the same amounts of money	change, count up.		by using
Spring 2	and		finding the total, difference and change	total, spent, all		
	different	•	solve simple and two step problems in a	possibilities,		
			practical context involving addition and	systematically.		



Giving change from a pound Giving change Face, shapes Explore.	 subtraction of money of the same unit, including giving change identify and describe the properties of 3-D 	traight, curved, - Identifying A has
and patterns; lines and turns	 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] identify and describe the properties of 2-D shapes, including the number of sides and line of symmetry in a vertical line compare and sort common 2-D and 3-D shapes and everyday objects order and arrange combinations of mathematical objects in patterns and sequences discuss and understand the differences of properties between both 2D and 3D shapes understand the line of symmetry and multiple ways this can be found on a shape 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) 	 Indefinitying Indefinitying



	Measures: Mass	 Weigh and compare masses in kilograms and grams 	 choose and use appropriate standard units to estimate and measure mass (kg/g) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels compare and order mass and record the results using >, < and = apply knowledge of numbers to 1000 to read scales to the nearest appropriate standard unit in the context of mass (kg/g) using known facts to derive new facts (2g + 2g =4g so 200g + 200g =400g) 	to, in front of, behind, under, above, in between, left, right, below, start, end, route, forwards, backwards, clockwise, anti- clockwise, half, quarter, full turn, rotation, quarter turn, straight line. Kilogram, heavier than, lighter than, as heavy as, weigh, mass, unit, standard unit, gram, 1000, difference, total, multiply, divide, add, part, whole.	- How tall am I now/was/will be? - How heavy/light am I now/was/will be?	The is heavier than the The is lighter than the
Summer 1	Exploring calculation strategies	 Apply strategies to solve addition and subtraction equations Introduce column method 	 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 add and subtract numbers mentally, including: a two-digit number and ones; a 	Make ten, number bonds, partition, round and adjust, known facts, near doubles, part, whole, known, unknown, add, subtract, more, fewer, less, difference, place value, tens, ones,		I can use strategy.



				•	two-digit number and tens; adding three one- digit numbers add and subtract numbers with up to two digits, using written methods	column, is equal to, regroup.		
	Problem Solving			•	to use place value and number facts to solve related problems to develop fluency solve problems with addition and subtraction: using concrete objects and pictorial representations, involving numbers, quantities and measures applying their increasing knowledge of mental and written methods solve problems involving multiplication and division using metarials		- Problem solving activities related to the overall topic.	
				•	division using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts use reasoning about numbers and relationships to solve more complex problems and explain their thinking solve unfamiliar word problems that involve more than one step			
Summer 2	Measures: Capacity and volume	•	Read and measure temperatur e Estimate, measure and understand litres and millilitres	•	choose and use appropriate standard units to estimate and measure capacity (litres/ml) and temperature (°C) to the nearest appropriate unit, using scales, thermometers and measuring vessels compare and order volume and capacity and record the results using >, < and = apply knowledge of numbers to 1000 to read scales to the nearest appropriate standard unit in the context of capacity (litres/ml) and temperature (°C)	Temperature, thermometer, unit of measure, degrees, Celsius, heat, hot, cold, warmer, cooler, more than, less than, estimate, capacity, one litre, volume, bar model, fractions, one half,		



	Compare and order capacities	•	using known facts to derive new facts (2ml + 2ml =4ml so 200ml + 200ml =400ml)	double, one quarter, two quarters, three, quarters, millilitre, altogether, difference, number bonds, part, whole, total.	
Numbers within 1000	 Represent numbers in different ways Compare and use symbols Read scales 	•	use place value and number facts to solve problems identify, represent and estimate numbers to 1000 using different representations (Y3) recognise the place value of each digit in a three-digit number (hundreds, tens, ones) (Y3) compare and order numbers up to 1000 (Y3) read and write numbers up to 1000 in numerals and in words (Y3) count from 0 in multiples of 100; find 10 or 100 more or less than a given number (Y3) apply knowledge of numbers to 1000 to read scales begin to understand zero as a place holder	Hundreds, tens, ones, place value chart, regrouping, numbers 0 – 99, whole, part, dienes, exchange, compare, greater than, less than, the same as, more, fewer, scale, mark, intervals.	
Multiplication and division: 3 and 4	 Relate 4 times table to doubling the 2 times table Recognise inverse relationship 	•	recall and use multiplication and division facts for the 3 and 4 multiplication tables (Y3) calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) signs solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication	Multiply, three, skip counting, number line, bead string, product, multiple of, group, part, whole, divide, array, share, commutative, multiplication, division, equal, bar model, problem solving, twice as	



 and division facts, including problems in contexts show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot count from 0 in multiples of 4, 8, 50 and 100 	many, three times as many, half of, one quarter of, one third of.	
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Year 2 Maths Meeting					
Autumn	Spring	Summer			
Number:	Number:	Number:			
 Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward Recognise the place value of each digit in a two-digit number (tens, ones) Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 Add and subtract number, explaining their method verbally using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a two-digit number and tens find 10 more and 10 less from any given number Shape: Identify and describe the properties of 2-D and 3-D shapes, including the number of edges, 	 Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 Add and subtract number, explaining their method verbally using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a two-digit number and tens (regrouping) Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers Shape: Identify and describe the properties of 2-D and 3-D shapes, including the number of edges, vertices and faces Use mathematical vocabulary to describe position, direction and movement 	 Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 Add and subtract number, explaining their method verbally using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a two-digit number and tens (regrouping) Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers Recognise the place value of each digit in a three-digit number (hundreds, tens, ones) Solve problems with addition and subtraction using chosen mental and written methods Use and apply the inverse method to check answers 			
 vertices and faces and begin to make comparisons Use mathematical vocabulary to describe position, direction and movement Measures: Measure and compare using cm, m and mm and record information using the correct standard abbreviations Compare, describe and order capacities, lengths and heights 	 Time: Know o'clock, half past, quarter past and quarter to Tell, read and write the time to five minutes, including quarter past/to the hour/half hour Connect the multiplication table to place value, and the 5 multiplication table to the divisions of a clock Money: solve simple and two step problems in a practical context involving addition and subtraction of money of the same unit 	 Measures: Compare, describe and order capacities, lengths and heights Measure and begin to record the following: lengths and heights; mass/weight; capacity and volume Recall standard unit's measurement including how many l in a L and how many cm in a m choose and use appropriate standard units to estimate and measure mass (kg/g) to the 			



 Measure and begin to record the following: lengths and heights; mass/weight; capacity and volume Interpret and construct simple pictograms, tally charts, block diagrams and simple tables (create a daily tally chart e.g. travel to school/weather) Time: Know o'clock, balf past, guarter past and 	 Measures: Compare, describe and order capacities, lengths and heights Measure and begin to record the following: lengths and heights; mass/weight; capacity and volume Recall standard units measurement including how many I in a L and how many cm in a m 	 nearest appropriate unit, using rulers, scales, thermometers and measuring vessels Time: Know o'clock, half past, quarter past and quarter to Tell, read and write the time to five minutes, including quarter past/to the hour/half hour Connect the multiplication table to place 				
 Know o'clock, half past, quarter past and quarter to 		value, and the 5 multiplication table to the divisions of a clock				
Money:		 compare and sequence intervals of time 				
• Recognise and use symbols for pounds (£)		Money:				
and pence (p); combine amounts to make a particular value		 solve simple and two step problems in a practical context involving addition and subtraction of money of the same unit 				
Children should;						
Recall simple number facts using songs or phrases						
 Use a whiteboard and pen to make notes and use their workings out during MM 						
 Provide opportunities where children can recall different strategies to support workings out 						

• Engage in suitable challenges throughout including GD activities where appropriate