

Maths Curriculum Map Nursery

Primary School					
Communication Responsibility Independence Callaboration Resilience Courseily Coverage	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Core Number	Number	Number	Number	Number	Number
Curriculum Compare small sets of objects by processing language "more than". Process simple positional vocabulary in the run of child-initiated play. Match pairs to demonstrate a secure grasp of commonality. Numerical Patterns Build with blocks of different shapes and sizes and loose parts, making good choices based on their understanding of properties. Measurement – Time Anticipate events related to elements of daily routines and use terms 'before' and 'after'. Sing/chant days of the week.	Compare small sets of objects by processing language "more than" and "fewer than". Count within and up to 5 with correspondence. Count sets to 5, applying the cardinal principle. Process language of everyday size during play. Process and use positional vocabulary in large scale physical play. Sort sets of objects such as building blocks into sets of identical members. Numerical patterns Use one-word informal descriptions of properties of 3D shapes as they build.	Subitise within 3. Show sets on fingers within 5. Process and use positional vocabulary accurately in small world scenes and when building. Create a set out of positive and negative examples of objects. Numerical Patterns Arrange 2D shapes, narrating choices with informal descriptions of properties. Use everyday language to compare size.	Solve everyday problems with numbers up to 5. Process and use positional vocabulary accurately when out in the wider locality. Numerical patterns Ascribe meaning to 3D shapes when building, according to their properties. Process language to create structures or arrangements longer, shorter, taller, wider than mine Process language to Fill and empty containers. Describe patterns on resources and in the environment using everyday language or regularity and repetition to describe features.	Link numerals to sets of 1, 2 or 3. Use absolute measurement vocabulary to describe everyday objects such as heavy, tall, big, tiny, full, empty. Compare lengths by aligning and accurately identify longer, taller and shorter. Numerical Patterns Process and use positional vocabulary accurately when describing book illustrations. Continue an ABAB linear pattern with everyday objects. Measurement – Time Talk about things that have happened in the Past.	Link numerals to sets within 5. Predict changes in amounts in stories and rhymes, counting forwards and backwards. Use a few of their own symbol and marks to represent mathematical experiences. Numerical Patterns Combine 2D and 3D shapes to make new shapes and narrate the effects created. Compare area of 2D shapes by placing them on top of each other identifying and naming bigger and smaller. Correct an error in an ABAB pattern. Participate accurately in ABAB repeated patterns of actions. Measurement – Time Talk about things that have already happened and things that are going to happen. Use terms day and night in

Big Ideas in Early Maths

Sets and Sorting

- Counting can be used to find out how many in a collection
- Counting has rules that apply to any collection
- Attributes can be used to sort collections into sets
- The same collection can be sorted in different ways
- Sets can be compared and ordered

Number Sense

- Numbers are used in many ways, some more mathematical than others
- Quantity is an attribute of a set of objects, and we use numbers to name specific quantities
- The quantity of a small collection can be intuitively
- perceived without counting

Number Operations

- Numbers are used in many ways, some more mathematical than others
- Quantity is an attribute of a set of objects, and we use numbers to name specific quantities
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Spatial Relationships

- Relationships between objects and places can be described with mathematical precision
- Our own experiences of space and two-dimensional representations of space reflect a specific point of view
- Spatial relationships can be visualised and manipulated mentally

Counting

- Counting can be used to find out how many in a collection
- Counting has rules that apply to any collection

Subitizing

 The quantity of a small collection can be intuitively perceived without counting

Numerical patterns

- Patterns are sequences (repeated or growing) governed by a rule; they exist both in the world and in mathematics.
- Identifying the rule of a pattern brings predictability and allows us to make generalisation.
- The same pattern can be found in many different forms.

Number: reciting, representing, and comparing

- Counting can be used to find out how many in a collection
- Counting has rules that apply to any collection

Numerical patterns in the environment

- Shapes can be defined and classified by their attributes
- The flat faces of solid (three dimensional) shapes are two dimensional shapes

Number: calculations and number problem combinations

- Numbers are used in many ways, some more mathematical than others
- Quantity is an attribute of a set of objects, and we use numbers to name specific quantities
- The quantity of a small collection can be intuitively perceived without counting

Subitizing

 The quantity of a small collection can be intuitively perceived without counting

Numerical patterns: classifying 2D and 3D shapes

- Shapes can be defined and classified by their attributes
- The flat faces of solid (three dimensional) shapes are two dimensional shapes
- Shapes can be combined and separated (composed and decomposed) to make new shapes

Number: reciting, representing and comparing

- Counting can be used to find out how many in a collection
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Numerical patterns: shape combinations in the world

 Shapes can be combined and separated (composed and decomposed) to make new shapes

Mental Maths In Nursery

Number and Place Value (Securing Numbers, Ordering and Comparing):

- Recite numbers past 5.
- Say one number name for each item in order: 1, 2, 3, 4, 5.
- Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle')

New Vocabulary For Nursery

Number and Place Value: number, zero 1-10 count on/back lots, more, few, fewer, sort, order, before, after, less, many, most, the same as, ones, pair

Addition and Subtraction: add, more, altogether, takeaway, number line, one more, one less, equals, equal to, make, total

Measure: days of the week, week, month, year, weekend, birthday, holiday, morning, afternoon, evening, night, midnight, bedtime, dinnertime, playtime, today, yesterday, tomorrow, before, after, next, last, now, soon, early, late, quick, fast, slow, old, new, watch, clock, always, never, first, size, weight, capacity, time, money long, longer, longers, shorter, shorters, heavy, light, empty, full, tall, small, large, thick, thin, low, deep, ruler, far, near, holds, container, weigh, weighs coin, pound, pence, cost, money, penny, buy, sell, pay, price, how many?

Geometry (Position and Direction): position, distance, after, before, in, on, inside, under, on top of, behind, next to, above, below, top, bottom, side, outside, around, underneath, in front, front, back, before, middle, up, down, forwards, backwards, across, close, far, along, to, from, slide, roll, turn, stretch, bend, move.

Geometry (Properties of Shape): shape, group, sort, round, flat, straight, make, build, draw. square, circle, triangle, cube, cuboid, sphere

General / Problem Solving: listen, join in, say, think, imagine, remember, start from, start with, start at, look at, point to, put, place, fit, change, split, carry on, what comes next? find, choose, collect, use, make, build, tell me, pick out, talk about, explain, show me read, write, finish, copy, colour, tick, cross, draw, draw a line between, join (up), ring, arrow, cost, count, work out, answer, fill in, check, in order, every, each.



Maths Curriculum Map Reception

Prin	nary School					
Communication Responsibility Independence Collaboration Resilience Curiosity Courage	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Core	Number	Number	Number	Number	Number	Number
Curriculum	Count forwards to 10, naming the number after and counting on from a given number. Count sets of objects or actions, demonstrating the cardinal rule within 5, then 10. Number composition to 5 Recognise commonality and make sets. Measurement – Time Use everyday language related to time. Narrate the pattern of the school day using now, next, after playtime, after lunch, before home time etc. Numerical Patterns Qualitative comparison of length and heigh.t Complete AB visual linear patterns.	Sort by one criterion. Recognise the odd one out in a set. Count backwards within 10, understanding the number before and counting back from a given number. Number composition to 5. Subitising. Measurement – Time Narrate the pattern of a day using morning, lunchtime, afternoon, evening, bedtime, daytime, night-time. Numerical Patterns Positional language with 3D shapes. Qualitative comparison of mass and capacity. Make AB transient linear pattern.	Count forwards and back within 20. Compare length and height qualitatively composition 6, 7 and 8, partitioning and recombining Subitise to 5. Measurement – Time Narrate the pattern of a week using today, tomorrow, yesterday. Numerical Patterns Design with 2D shapes. Make 2D shapes out of other 2D shapes.	Count forwards and back within 20. Make comparison of length and height using non-standard measures. Demonstrate understanding of the composition 6, 7 and 8 by pair wise and five wise patterns on 10s frames. Subitise to 5 Measurement – Time Narrate the pattern of a week using the names of the days. Numerical Patterns Designs with 2D shapes – problems and properties. Sort 2D shapes according to properties.	Count by rote to 50 Demonstrate understanding of the composition of 9 and 10 by partitioning and recombining and pair wise and five wise patterns on 10s frames. Recall and apply double 1 to double 5. Recall subtraction facts within 5 and apply. Recall evens and odds and apply Count by rote to 100, recognising decade numbers. Measurement – Time Narrate the pattern of a week using the names of days, weekend, today, tomorrow, yesterday Numerical Patterns Design 3D shapes on mirrors Make 3D shapes out of 3D shapes	Count by rote to 100. Make sets of 100, actual and transient. Count in decade numbers. Notice and articulate patterns or a 100 square. Patterns on the 100 square Recall and apply doubles and halves within 10. Measurement – Time Narrate a pattern of the year. Numerical Patterns Continue and create more complex linear patterns. Continue and create circular and symmetrical designs with 2D and 3D shapes. Sort 3D shapes according to properties. Measure mass and capacity usin simple non-standard measures.

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Numerical patterns: shape combinations in the world

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Mental Maths In EYFS

Number and Place Value (Securing Numbers, Ordering and Comparing): Counting forwards and backwards in 1s to 20 - teen numbers; Order a set of consecutive numbers to 10.

Addition and Subtraction (Multiples): Partitioning 3 or 4 objects in different ways; Number bonds to 5; Knowing 1 more / less than numbers to 5 / 10; Counting all-combining groups; Counting on to add from any number; Knowing 1 less than numbers to 5; Counting back to subtract

Multiplication and Division (Doubling Numbers / Near Doubles): Double numbers to 5; Halve even numbers up to 10 by sharing

New Vocabulary For EYFS

Number and Place Value: number, zero 1-20 count on/back lots, more, few, fewer, compare, sort, order, before, after, less, many, most, the same as, ones, pair

Addition and Subtraction: add, more, altogether, takeaway, number line, one more, one less, equals, equal to, double, half, how many? make, total

Fractions: double, half, whole

Measure: days of the week, week, month, year, weekend, birthday, holiday, morning, afternoon, evening, night, midnight, bedtime, dinnertime, playtime, today, yesterday, tomorrow, before, after, next, last, now, soon, early, late, quick, fast, slow, old, new, watch, clock, always, never, first, size, weight, capacity, time, money long, longer, longest, short, shorter, shortest, heavy, light, empty, full, tall, small, large, thick, thin, low, deep, ruler, far, near, holds, container, weigh, weighs coin, pound, pence, cost, money, penny, buy, sell, pay, price, how many?

Multiplication and Division: times, counting in ones, twos, fives, tens, lots of, groups of, once, twice, five times sharing, share, set, group, left, left over

Geometry (Position and Direction): position, distance, after, before, in, on, inside, under, on top of, behind, next to, above, below, top, bottom, side, outside, around, underneath, in front, front, back, before, middle, up, down, forwards, backwards, across, close, far, along, to, from, slide, roll, turn, stretch, bend, move.

Geometry (Properties of Shape): shape, group, sort, round, flat, straight, make, build, draw. square, circle, triangle, cube, cuboid, sphere

General / Problem Solving: listen, join in, say, think, imagine, remember, start from, start with, start at, look at, point to, put, place, fit, change, split, carry on, what comes next? find, choose, collect, use, make, build, tell me, pick out, talk about, explain, show me read, write, finish, copy, colour, tick, cross, draw, draw a line between, join (up), ring, arrow, cost, count, work out, answer, fill in, check, in order, every, each.



Curriculum 10) Subtraction (within 10) • Sort, count and represent objects • Count, read and write forwards and backwards from any number 0-10 • Count one more and one less • One-to-one correspondence to • Subtraction (within 10) • Use a part-whole model of Find number bonds for numbers within 10 • Add by counting on • Find and make number bonds • Add by making 10 • Add by making 10 • Compare lengths and heights • Measure length • Compare lengths and heights • Measure length • Compare lengths and heights • Make and add equal groups • Make arrays • Make doubles • Make doubles • Make doubles • Make equal groups- • Make equal groups- • Make doubles • Make equal groups- • Measure and compare mass • Introduce capacity and volume • Measure capacity and volume • Count in 2s, 5s, 10s • Count in 2s, 5s, 10s • Make and add equal groups • Make doubles • Make equal groups- • Measurement: Weight and volume • Measure and compare mass • Introduce capacity and volume • Measure capacity and volume • Measure capacity and volume • Measure ength • Measure length • Measure ength • Measure ength • Make and add equal groups • Make and add equal groups • Make arrays • Make equal groups- • Make doubles • Make equal groups- • Make doubles • Make equal groups- • Measure and compare mass • Measure capacity and volume • Measure capacity and volume • Measure capacity and volume • Measure ength • Measure ength • Measure ength • Make arrays • Make doubles • Make or and the including to the part of the p	Prim	ary School					
Curriculum 10) Subtraction (within 10) Use a part-whole model represent objects Count, read and write forwards and backwards from any number 0-10 Count one more and one less One-to-one correspondence to Subtraction (within 10) Use a part-whole model Find number bonds for numbers within 10 Add by counting on Find and make number bonds Add by making 10 Add by counting on Find and make number bonds Add by making 10 Add by making 1	Communication Responsibility Independence Colleboration Resilience Corrosity Courage	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
• Compare groups using language such as equal, more/greater,		Sort, count and represent objects Count, read and write forwards and backwards from any number 0-10 Count one more and one less One-to-one correspondence to compare groups Compare groups using language such as equal, more/greater, less/fewer Introduce <,> and = symbols Compare, order numbers and groups of objects Ordinal numbers (1st, 2nd, 3rd) Use a number line for	Subtraction (within 10) Use a part-whole model Find number bonds for numbers within 10 Compare number bonds Addition-adding together, adding more, finding a part Subtraction-taking away, how many left? Subtraction-finding a part, breaking away, counting back, finding the difference Fact families Comparing addition and subtraction statements Geometry: Shape Recognise and name 3-D shapes Sort 3-D shapes Recognise and name 2-D shapes Sort 2-D shapes Make patterns with 2-D and 3-D shapes	Subtraction (within 20) Add by counting on Find and make number bonds Add by making 10 Subtraction including crossing 10 Related facts Compare number sentences Number: Place Value (within 50) Represent numbers to 50 using tens and ones One more one less Compare objects and numbers within 50 Order numbers within 50	Compare lengths and heights Measure length Measurement: Weight and Volume Introduce weight and mass Measure and compare mass Introduce capacity and volume	Division Count in 2s, 5s, 10s Make and add equal groups Make arrays Make doubles Make equal groups-grouping and sharing Number: Fractions Find halves and quarters Geometry: Position and Direction	Count forwards and backwards within 100 Partition numbers Compare and order numbers One more, one less Measurement: Money Recognise coins and notes Count in coins Measurement: Time Before and after Dates Tell time to the hour and half hour

New			east, fewest, smallest, greater, less	er, equal to, odd, even, units, tens, ten	more/less, digit, numeral, figure(s), c	ompare (In) order/a different order,	
Vocabulary	size, value, between, halfway between, above, below.						
For Y1	Addition and subtraction: number bonds, addition, plus, sum, greater, inverse, near double, halve, is the same as, (including equals sign), difference between, how many more to make?, how, many more is?, how much more is? subtract, minus, how many fewer isthan?, how much less is?						
	Fractions: whole, equal parts, f	four equal parts, one half, two halv	es, a quarter, two quarters.				
	Measurement: size, bigger, larg	ger, length, width, height, depth, ta	aller, tallest, high, higher, highest, v	vide, narrow, shallow, close, Metre, me	tre stick. half full, balances, heavier, h	neaviest, lighter, lightest, scales.	
	past, hands, how long ago? how	w long will it be to? how long will		fastest, slower, slowest, slowly, older, onetimes, usually, once, twice, second, these the same as, how much?			
	Multiplication and Division: oc group in pairs, threes, etc. equa		(forwards from/backwards from), I	how many times?, multiple of, multiply,	multiply by repeated addition, array	, row, column, halve, share equally,	
	Geometry (Position and Direct	tion): over, beside, opposite, apart,	between, edge, centre, corner, dir	ection, journey, left, right, sideways, ne	ear, through, towards, away from, mo	vement, whole turn, half turn.	
	Geometry (Properties of Shape	e): pyramid, cone, cylinder. curved,	, hollow, solid, corner (point, pointe	ed) face, side, edge.			
	_	range, rearrange, change over, sepa way, another way, in a different ord		xplain, record, trace, complete, shade, s	same number(s)/different number(s)/	missing number(s) number facts,	
Continuous	Geometry: Shape Recognise ar	nd name 3-D shapes; Sort 3-D shape	es; Recognise and name 2-D shapes	s; Sort 2-D shapes; Make patterns with 2	2-D and 3-D shapes		
Curriculum	Geometry: Position and Direct	tion Describe turns and position					
(Maths Meetings)	Measurement: Length and Hei	ight Compare lengths and heights;	Measure length				
Weetings	Measurement: Weight and Vo	Introduce weight and mass; N	Measure and compare mass; Introd	uce capacity and volume; Measure capa	acity and volume		
	Measurement: Money Recogn	ise coins and notes; Count in coins					
	Measurement: Time Before an	nd after; Dates; Tell time to the hou	r and half hour; Compare time				
	Number: Fractions Find halves	and quarters					
Arithmetic Fluency (Key Focus)	Count to and across 20 forwards and backwards, beginning with 0 or 1, or from any given number Given a number, identify 1 more, 1 less Add and subtract one-digit and two-digit numbers to 20, mathematical statements to 20, mathematical statements and subtraction facts within two-digit numbers to 20,					Written (+ -) Read, write and interpret mathematical statements involving +, - and = signs	
Consolidation (To be Included in Arithmetic Lessons)	Addition and subtraction – count on and back (Reception, Summer 1)	Number: Place Value (within 10) (Year 1, Autumn 1)	Number: Addition and Subtraction (within 10) (Year 1, Autumn 2)	Number: Addition and Subtraction (within 20) (Year 1, Spring 1)	Number: Place Value (within 50) (Year 1, Spring 1)	Number: Multiplication and Division (Year 1, Summer 1)	

Mental Maths	Number and Place Value (Securing Numbers, Ordering and Comparing): Counting forwards and backwards in 1s to 20 - teen numbers; Order a set of consecutive and then random numbers to 20.									
	Number and Place Value (Counting): Counting forwards in multip	Number and Place Value (Counting): Counting forwards in multiples of 10 to 100; Counting forwards and backwards in 1s to 100. Adding any number to 10 e.g., 10 + 5, 10 + 7								
	Addition and Subtraction (Multiples): Adding / subtracting 1 more / less to any number up to 100; Number bonds to 5 extending to 10; Counting on from largest number / re-ordering numbers to add $e.g.$, $1+8$ Counting on / back in 1s to add / subtract any 1-digit number to teens number $e.g.$, $13+5$, $17-2$; Partition numbers to 10 (using concrete resources for number bonds) to find addition and subtraction facts. $e.g.$, $8+2=10$ so $8+3=8+2+1$; $10-2=8$ so $11-2=9$; Number bonds to 10; Number bonds to 20 $e.g.$, $8+2=10$ so $18+2=20$; $10-8=2$ so $20-18=2$									
	Addition and Subtraction (Adding / Subtracting 10's, 100's, 1000' 1, 10?	's): Counting in multiples of 10s; Representing 2 digit numbers using concr	rete resources; What changes / stays the same when you add / subtract							
	Multiplication and Division (Doubling Numbers / Near Doubles): Recall double numbers to 5/10 <i>e.g.</i> , <i>up to double 10 = 20</i> ; Doubling 1 digit numbers <i>e.g. 6 + 6</i> ; Adding near doubles (adjusting) <i>e.g. 6 + 7</i> (double 6 add 1 or double 7 subtract 1); Halve even numbers to 20; Half of 20 = 10; Recognise odd numbers as those that cannot be shared into 2 equal groups; Adding near doubles <i>e.g. 6 + 7</i>									
Times Tables	Count in 2s up to 24 linking with even numbers and supporting doubles Count in multiples of 10 in order up to 120	Count in multiples of 5 up to 60, linking to knowledge of counting in 10s Develop fluency of counting in 2s and 10s	Count in multiples of 10,2 and 5 in order with growing fluency							



Primo	ary School					
Communication Responsibility Independence Colloboration Resilience Curroatty Courage	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Core Curriculum	Number: Place Value Count forwards and backwards within 20 Tens and ones within 20 Count forwards and backwards within 50 Tens and ones within 50 Tens and ones within 50 Compare numbers within 50 Compare numbers within 50 Count objects, read, write and represent numbers to 100 Tens and ones with a part whole model Tens and ones using addition Use a place value chart Compare and order objects and numbers Number: Addition and Subtraction Fact families-addition and subtraction Fact familes-addition and subtraction bonds to 20 Compare number sentences and related facts Bonds to 100 (10s) Add and subtract 1s 10 more and 10 less Add and subtract 10s	Measurement: Money Recognise coins and notes Count money-pence and pounds Select money Make the same amount Compare money Find the total, difference, change Two step problems Number: Multiplication and Division Make and add equal groups Make arrays	Number: Multiplication and Division Recognise, make and add equal groups Multiplication sentences using x symbol Multiplication sentences from pictures Use arrays Make doubles 2, 5, and 10 times table Make equal groups-sharing and grouping Divide by 2 Odd and even numbers Divide by 5 and 10 Statistics Make tally charts Draw and interpret pictograms (1-1) Draw and interpret pictograms (2,5 and 10) Block diagrams	Geometry: Properties of Shape Recognise 2D and 3D shapes Count sides and vertices on 2D shapes Draw, sort and make patterns with 2D shapes Lines of symmetry Count faces, edges and vertices on 3D shapes Sort and make patterns with 3D shapes Number: Fractions Make equal parts Recognise and find half and quarter Recognise and find one third Unit and non-unit fractions Equivalence of ½ and 2/4 Find three-quarters Count in fractions	Measurement: Length and Height Compare lengths and heights Measure lengths in cm and m Compare and order lengths Four operations with lengths Geometry: Position and Direction Describe position, movement and turns Make patterns with shapes	Measurement: Time Tell time to the hour and half hour clock and half past Quarter past and quarter to Tell time to 5 minutes Hours and days Find and compare durations of time Measurement: Mass, Capacity and Temperature Introduce weight and mass Measure mass in grams Measure mass in grams Introduce capacity and volume Measure capacity Compare volume Millilitres and litres Temperature

	Add by making 10					
	Add a 2 and 1 digit					
	number –crossing 10					
	Subtract a 1 digit					
	from a 2 digit					
	number-crossing 10					
	 Add 2 digit numbers 					
	not crossing then					
	crossing 10					
New	Number and Place Value: no	umbers to one hundred, hundreds,	partition, recombine, hundred moi	e/less, represents, exchange,		
Vocabulary For Y2	Statistics: count, tally, sort, v	vote, graph, block graph, pictogram	, represent group, set, list, table la	bel, title most popular, most common, le	east popular, least common	
	Fractions: three quarters, or	ne third, a third, equivalence, equiva	alent.			
	Measurement: quarter past,	/to, fortnight temperature (degrees	s) m/cm, g/kg, ml/l			
	Multiplication and Division:	count in multiples of 3				
	Geometry (Position and Dire	ection): rotation, clockwise, anticlo	ckwise, straight line, ninety degree	turn, right angle.		
	Geometry (Properties of sha angle.	ape): smaller, symmetrical, line of s	ymmetry, fold, match, mirror line,	reflection, pattern, repeating pattern, ve	ertices, vertex. pentagon, hexagon, o	ctagon, circular, triangular, right
		redict, describe the pattern, describ				
Continuous	Measurement: Money Reco	gnise coins and notes; Count mone	y-pence and pounds; Select money	; Make the same amount; Compare mo	ney; Find the total, difference, chang	e; Two step problems
Curriculum						
	Statistics Make tally charts;	Draw and interpret pictograms (1-1); Draw and interpret pictograms (2,5 and 10); Block diagrams		
(Maths Meetings)	Geometry: Properties of Sha shapes; Sort and make patte		ount sides and vertices on 2D shap	es; Draw, sort and make patterns with 2	2D shapes; Lines of symmetry; Count	faces, edges and vertices on 3D
			nd quarter; Recognise and find one	e third; Unit and non-unit fractions; Equi	ivalence of ½ and 2/4; Find three-qua	rters; Count in fractions
		Intelligence of the state	. Married Lands		and the sales	
	Measurement: Length and H	Height Compare lengths and height	s; Measure lengths in cm and m; Co	ompare and order lengths; Four operation	ons with lengths	
	Geometry: Position and Dire	ection Describe position, movemen	t and turns; Make patterns with sh	apes		
	Measurement: Time Tell tim	ne to the hour and half hour; O'cloc	k and half past; Quarter past and q	uarter to; Tell time to 5 minutes; Hours	and days; Find and compare duration	ns of time
	Measurement: Mass Canac	ity and Temperature Introduce we	ight and mass: Measure and comp	are mass; Measure mass in grams; Intro	duce canacity and volume: Measure	canacity: Compare volume:
	Millilitres and litres; Temper		ight and mass, weasure and compo	ine mass, measure mass in grams, incre	duce capacity and volume, ivieasure t	capacity, compare volume,
Arithmetic	Counting	Number facts (+ -)	Mental (+ -)	Written (+ -)	Number facts (x ÷)	Mental / Written (x ÷)
	Count to and across 100	Use place value and number	Add and subtract numbers	Record addition and subtraction in	Recall and use multiplication and	Calculate mathematical
Fluency	from any given number	facts to solve problems	using concrete objects,	columns to prepare for formal	division facts for the 2,5 and 10	statements for multiplication and
(Key Focus)	Count, read and write	Recall and use addition and	pictorial representations and	written methods with larger	times tables, including	division within the 2, 5 and 10
	numbers to 100 in	subtraction facts to 20 fluently	mentally:	numbers	recognising odd and even	times tables.
	numerals	Derive and use related facts up to 100	A two digit number and		numbers	Show that multiplication of 2 numbers can be done in any
		10 100	1s			numbers can be done in any

	Count in multiples of 2, 3, 5 and 10 from any number forward and back.		A two digit number and 10s 2 two digit numbers Add 3 one digit numbers Show that addition can be done in any order (commutative) and subtraction of a 1 digit number from another cannot			order (commutative) and division of 1 number by another cannot Write the mathematical statements using x ÷ and = signs
Consolidation (To be Included in Arithmetic Lessons)	Number: Place Value (within 100) (Year 1, Summer 2)	Number: Addition and Subtraction (Year 2, Autumn 1)	Number: Multiplication and Division (Year 2, Autumn 2)	Number: Place Value (within 100) (Year 1, Summer 2)	Number: Fractions (Year 2, Spring 2)	Number: Addition and Subtraction (Year 2, Autumn 1)
Mental Maths	Number and Place Value (Co Addition and Subtraction (M number) using number bond bonds to 10) Addition and Subtraction (A Number bonds to 100 e.g. 70 Multiplication and Division (10s to 100 e.g. half of 40. For 100 by partitioning and recon Multiplication and Division (halving. Fractions Decimals and Percon	fultiples): Recall number bonds to is to add/subtract (reordering num dding / Subtracting 10's, 100's, 100's, 400's, 400'	vards in 10s and 1s to 100 (mixed co 20 and use this to find bonds to 18, bers) $e.g.$ $8 + 7 = 8 + 2 + 5$, $13 - 5 =$ 00's): Add 1 to any number to 100; 30 + 20, $30 + 60$, $30 + 80s): Double teen numbers 16 + 16 N of 10 with odd number of 10s by pato 100 by partitioning and recombinnumutativity using arrays e.g. 4 \times 3 =$	packwards in 1s to 100; Order a set of raccounting) e.g., 20, 30, 40 etc, 20, 30, 31, 3, 19; Add 3 numbers where bond to 10 e $13-(3-5)$, $16+5$ ($16+4+1$); Subtracting Counting in 10s from any number (forwhelear doubles $16+17$; Double multiples of rititioning and recombining e.g. half of 3 ining. 3 x 4; Rewrite repeated addition as mush in fractions up to 10, starting from any	evident; Reorder numbers to add <i>e.g</i> ; any single digit number from a multivards/backwards); Add/subtract nea of 10 to 100 <i>e.g double 20</i> ; Halve multiplication; Relationship between 5x number and using the 1/2 and 2/4 e	tiple of 10 e.g. 80 – 7 (knowledge of r 10s and adjusting e.g. 9, 11 altiples of 10 with even number of = 15; Doubling even numbers up to a and 10x table and doubling and
55 Club (Multiplication and Division Facts)	10 Club A and B Consolidate counting in 2s, 5 12X Recall multiples of 10 up to 1 missing numbers and related fluency		10 Club C and D Recall multiples of 2 up to 12x2 in numbers and related division factor Recall multiples of 10 up to 12x1 Recall multiples of 5 up to 12x5 in numbers and related division factor fact	ts with growing fluency O fluently n any order, including missing	10 Club E and F Count in multiples of 3 to 12x3 in a Recall multiples of 2 up to 12x2 in numbers and related division facts Recall multiples of 5 up to 12x5 in numbers and related division facts	s fluently any order, including missing



Primo	ary School					
Communication Responsibility Independence Collaboration Resilience Currosity Courage	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Core Curriculum	Number: Place Value Represent numbers to 100 Tens and ones using addition Hundreds Represent numbers to 1000 100s, 10s and 1s Number line to 1000 Find 1,10,100 more or less than a given number Compare objects to 1000 Compare and order numbers to 1000 Count in 50s Number: Addition and Subtraction Add and subtract multiples of 100 Add and subtract 1s Add and subtract 1s Add and subtract 2,3 and 1 digit numbers and crossing 10 Subtract 2 digit and 1 digit and 1 digit numbers and crossing 10 Subtract 3 and 2 digit numbers and crossing 100	Number: Multiplication and Division Multiplication-equal groups Multiplication using the symbol Using arrays 2 and 5 times table Make equal groups-sharing and grouping Divide by 2,5 and 10 Multiply and divide by 3 3 times table	Number: Multiplication and Division Consolidate 2,4 and 8 times tables Compare statements Related calculations Multiply and divide 2 digit by 1 digit Scaling How many ways? Measurement: Money Convert pounds and pence Add and subtract money Give change	Statistics Make tally charts Draw and interpret pictograms (2,5 and 10) Pictograms, bar charts, tables Measurement: Length and Perimeter Measure length (m) Equivalent lengths m, cm and mm Compare lengths Add and subtract lengths Measure and calculate perimeter Number: Fractions Make equal parts Recognise and find half, quarter and third Unit and non-unit fractions Equivalence of ½ and 2/4 Count in fractions	Number: Fractions Making the whole Count in tenths Tenths as decimals Fractions on a number line Fractions of a set of objects Equivalent fractions Compare and order fractions Add and subtract fractions Measurement: Time Clock, half past, quarter to and quarter past Months and years Hours in a day Telling the time to 5 minutes and the minute Using am and pm 24 hour clock Find and compare durations Start and end times Measuring time in seconds	Geometry: Properties of Shape Turns and angles Right angles in shapes Compare angles Draw accurately Horizontal, vertical, parallel and perpendicular Recognise and describe 2D and 3D shapes Make 3D shapes Measurement: Mass and Capacity Compare and measure mass Add and subtract mass Compare volume Measure and compare capacity Add and subtract capacity Temperature

	Add and subtract 100s Spot patterns Add two 2 digit numbers crossing 10 Subtract 2 digit from a 2 digit number					
	crossing 10					
New	Number and Place Value: no	umbers to 1,000	<u> </u>		l	
Vocabulary for Y3	Addition and subtraction: co	olumn addition and subtraction				
	Fractions: numerator, denor	minator, unit fraction, non-unit frac	tion, compare and order, tenths			
	Measurement: leap year two	elve-hour/24- hour clock, am/pm, c	entury roman numerals I-XII mm			
	Multiplication and Division:	count in multiples of 4, 8 and 11, p	roduct, scale up			
	Geometry (Position and Dire	ection): greater/less than 90 degree	es orientation (same orientation, di	fferent orientation), north, south, east,	west	
	Geometry (Properties of Sha	ape): horizontal, vertical, perpendic	ular and parallel lines. perimeter he	emi-sphere, prism, semi-circle		
	Statistics: chart, bar chart, fr	requency table, Carroll diagram, Ver	nn diagram, axis, axes diagram			
Continuous	Measurement: Money Conv	vert pounds and pence; Add and sub	otract money; Give change			
Curriculum	<u>Statistics</u> Make tally charts;	Draw and interpret pictograms (2,5	and 10); Pictograms, bar charts, ta	bles		
(Maths Meetings)	Measurement: Length and F	Perimeter Measure length (m); Equi	ivalent lengths m, cm and mm; Con	npare lengths; Add and subtract lengths	; Measure and calculate perimeter	
				t fractions; Equivalence of ½ and 2/4; Co fractions; Add and subtract fractions	ount in fractions; Making the whole; C	Count in tenths; Tenths as decimals;
		s, half past, quarter to and quarter pes; Measuring time in seconds	past; Months and years; Hours in a	day; Telling the time to 5 minutes and t	he minute; Using am and pm; 24 hou	r clock; Find and compare
	Geometry: Properties of Sha shapes	ape Turns and angles; Right angles i	n shapes; Compare angles; Draw ac	ccurately; Horizontal, vertical, parallel a	nd perpendicular; Recognise and desc	cribe 2D and 3D shapes; Make 3D
	Measurement: Mass and Ca	pacity Compare and measure mass	; Add and subtract mass; Compare	volume; Measure and compare capacit	y; Add and subtract capacity; Temper	rature
Arithmetic	Counting Count from 0 in multiples	Written (+ -) Add and subtract numbers	Mental (+ -) Add and subtract numbers	Number facts (x ÷) Recall and use multiplication and	Mental (+ -) /Written (x ÷) Write and calculate	Fractions and Decimals Count up and down in tenths
Fluency (Key Focus)	of 4,8,50 and 100 Find 10 or 100 more or	with up to three digits, using formal written methods of	mentally, including: • A three digit number and	division facts for the 3,4 and 8 times tables	mathematical statements for multiplication and division using	Recognise that tenths arise from dividing an object into 10 equal
(110) 1 0000)	less than a given number	columnar addition and	1s	and dates	the multiplication tables that	parts and in dividing one digit
		subtraction	A three digit number and 10s		they know, including for two digit numbers times one digit	numbers or quantities by 10 Add and subtract fractions with
			A three digit number and		numbers, using metal methods	the same denominator within
			100s		Progress to formal written	one whole

Consolidation (To be Included in Arithmetic Lessons)	Number: Multiplication and Division (Year 2, Spring 2)	Number: Place Value (Year 3, Autumn 1)	Number: Addition and Subtraction (Year 3, Autumn 1)	Number: Multiplication and Division (Year 3, Autumn 2 & Spring 1)	methods for multiplication and division Number: Addition and Subtraction (Year 3, Autumn 1)	Number: Fractions (Year 3, Spring 2 & Summer 1)
Mental Maths	Number and Place Value (Co Addition and Subtraction (No Counting in 10s e.g. Use num Addition and Subtraction (A regrouping), 143 + 70 (regro context e.g. 99p, £1.99 Multiplication and Division recombining e.g. half of 30, 9 Multiplication and Division multiples of 10 e.g. 6 x 3, 6 x 50 x 2 = 100, 25 x 4 = 100, 20 1000cm = 1km, 1000 ÷ 2 = 50	fultiples): Add 100 to any 2 / 3digit of the bound of 10 to any 2 / 3digit of the bounds of 10 to a substracting 10's, 100's, 10 uping); Explain effects of adding 10 (Doubling Numbers / Near Double 50, 70, 30 = 20+10, Half is 10 + 5 = 10 (Order of Operations): Multiplications using assource of the bound of 1000 in 4 = 250, ½ 1/kg/km = 50 1000 in 4 = 250, ½ 1/kg/km = 50 1000 in 4 = 250, ½ 1/kg/km = 50 1000 in 4 = 250, ½ 1/kg/km = 50 1000 in 4 = 250, ½ 1/kg/km = 50 1000 in 4 = 250, ½ 1/kg/km = 50 1000 in 4 = 250, ½ 1/kg/km = 50 1000 in 4 = 250, ½ 1/kg/km = 50 1000 in 4 = 250, ½ 1/kg/km = 50 1000 in 4 = 250, ½ 1/kg/km = 50 1000 in 4 = 250, ½ 1/kg/km = 50 1000 in 4 = 250, ½ 1/kg/km = 50 1000 in 4 = 250, ½ 1/kg/km = 50 1000 in 4 = 250, ½ 1/kg/km = 50 1000 in 4 = 250, ½ 1/kg/km = 50 1000 in 4 = 250, ½ 1/kg/km = 50 1000 in 4 = 250, ½ 1/kg/km = 50 1000 in 4 = 250, ½ 1/kg/km = 50 1000 in 4 = 250, ½ 1/kg/km = 50 1000 in 4 i	number e.g., 45 + 100, 145 + 100; A o a 2/3 digit number e.g. 153 + 20, - 20); To subtract many amounts, co 00's): Add 10 to any number, 43 + 2 b. Why do 1s not change when addir s): Doubles of multiples of 10/near 15; Double simple 3 digit numbers (on and division of whole numbers be ciative rule e.g., 4 x 12 x 5, 4 x 12 =		tiple of 10 from a 2/3 digit number, e 20p – 30p), £1 – 50p number e.g. 43+ 30 (no regrouping), ear multiples of 10 e.g. + 99, 31, 29 et a company and the second of the	(regrouping) 2.g. 153 – 20, 153 – 70 (regrouping) 43 + 70 (regrouping), 143 + 30 (note including in simple money ber of 10s by partitioning and sown facts to multiply and divide by buble 4x table = 8x; Know that e.g.
55 Club (Multiplication and Division Facts)	fluency.	2x3 in any order, including		, ,	34 Club A, B, C Recall multiples of 4 up to 12x4 in a numbers and related division facts Recall multiples of 8 up to 12x8 in a numbers and related division facts	fluently any order, including missing



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Communication Responsibility Independence Collaboration Resillence Curiosity Courage	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Core Curriculum	Number: Place Value Represent numbers to 1000 100s,10s and 1s Number line to 1000 Round to nearest 10,100 Count in 1000s 1000s,100s,10s,1s Partitioning Number line to 10000 Find 1,10,100 more or less 1000 more or less Compare numbers Number: Addition and Subtraction Add and subtract 1s,10s,100s,1000s Add two 3 digit numbers not crossing then crossing 10 and 100 Add two 4 digit numbers, no exchange then one or more exchanges Subtract a 3 digit from a 3 digit number no exchange Subtract a 4 digit number no exchange	Measurement: Length and Perimeter Equivalent lengths-m and cm, mm and cm Add lengths Subtract lengths Measure perimeter Perimeter on a grid Perimeter or rectangles and rectilinear shapes Number: Multiplication and Division Multiply and divide by 10 and 100 Multiply by 1 and 0 Multiply and divide by 3 The 3 times table Multiply and divide by 6 6 times table and division facts Multiply and divide by 9 9 times table and division facts Multiply and divide by 7 7 times table and division facts	Number: Multiplication and Division 11 and 12 times table Multiply 3 numbers Efficient multiplication Written methods Multiply 2 digits by 1 digit Multiply 3 digits by 1 digit Divide 2 digits by 1 digit What is area? Counting squares Making shapes Comparing area	Number: Fractions Unit and non-unit fractions Tenths – count in tenths Equivalent fractions Fractions greater than 1 Count in fractions Add fractions Add 2 or more fractions Number: Decimals Recognise tenths and hundredths Tenths as decimals Tenths on a place value grid and number line Divide 1 then 2 digits by 10 Hundredths on a place value grid Hundredths on a place value grid Divide 1 or 2 digits by 100	Number: Decimals Bonds to 10 and 100 Make a whole Write, compare and order decimals Round decimals Halves and quarters Measurement: Money Pounds and pence Ordering money Estimating money Convert pounds and pence Add and subtract money Find change Four operations	Measurement: Time Telling the time to 5 minutes Telling the time to the minute Using a.m. and p.m. 24 hour clock Hours, minute and seconds Years, months, weeks and days Analogue to digital-12 hour Analogue to digital-24 hour Statistics Interpret charts Comparison, sum and difference Introduce line graphs Geometry: Properties of Shape Turns and angles Right angles in shapes Compare, identify and order angles Recognise and describe 2-D shapes Triangles and quadrilaterals Horizontal and vertical Lines of symmetry Complete a symmetrical figure Geometry: Position and Direction Describe a position

	 Subtract a 3 digit from a 3 digit number-exchange Subtract two 4 digit numbers-exchange Efficient subtraction Estimate answers and check strategies 					 Draw on a grid Move on a grid Describe movement on a grid 			
New	Number and Place value: ter	nths, hundredths, numeral decimal	places round (to nearest) thousand	d more / less negative integers count th	rough zero roman numerals I to C				
Vocabulary for Y4	Multiplication and Division:	count in multiples of 6, 7, 9, 12, inv	verse, derive division facts						
	Fractions: equivalent fraction	ns and decimals, decimal point, dec	imal fraction hundredths						
	Geometry (Position and Dire	ection): co-ordinates translation, tra	anslate, quadrant x-axis, y-axis						
		Geometry (Properties of Shape): area, net rectilinear adjacent quadrilaterals: (rhombus, parallelogram, trapezium, trapezoid, kite). heptagon, polygon, tetrahedron, polyhedron, cylindrical triangles (isosceles, scalene) right angle, acute angle, obtuse angles							
	Measurement: convert, noon								
	Statistics: continuous data, line graphs								
Continuous Curriculum	Measurement: Length and Perimeter Equivalent lengths-m and cm, mm and cm; Kilometres; Add lengths; Subtract lengths; Measure perimeter; Perimeter on a grid; Perimeter or rectangles and rectilinear shapes								
(Maths	Measurement: Area What is	area?; Counting squares; Making s	hapes; Comparing area						
Meetings)	Number: Fractions Unit and	non-unit fractions; Tenths –count i	n tenths; Equivalent fractions; Frac	tions greater than 1; Count in fractions;	Add fractions; Add 2 or more fractio	ns			
	_			grid and number line; Divide 1 then 2 d ls; Round decimals; Halves and quarters	=	Hundredths on a place value grid;			
	Measurement: Money Pound	ds and pence; Ordering money; Est	imating money; Convert pounds a	nd pence; Add and subtract money; Find	d change; Four operations				
	Measurement: Time Telling t Analogue to digital -24 hour	the time to 5 minutes; Telling the ti	me to the minute; Using a.m. and	p.m.; 24 hour clock; Hours, minute and	seconds; Years, months, weeks and c	lays; Analogue to digital-12 hour;			
	Statistics Interpret charts; Co	omparison, sum and difference; Inti	roduce line graphs						
	Geometry: Position and Dire	ection Describe a position; Draw on	a grid; Move on a grid; Describe m	novement on a grid					
Arithmetic Fluency (Key Focus)	Counting Count in multiples of 6,7,9, 25 and 1000 Find 1000 more or less than a given number through zero to include negative numbers	Written (+ -) Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate	Fractions and decimals Count up and down in hundredths Recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten Written (+ -)	Number facts (x ÷) Recall multiplication and division facts for multiplication tables up to 12x12	Mental / Written (x ÷) Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers	Fractions and decimals Add and subtract fractions with the same denominator Find the effect of dividing a one or two digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths			

	T		Maritical Communication and the committee of the communication of the co		December and the factor and the				
			Multiply two and three digit		Recognise and use factor pairs				
			numbers by a one digit number		and commutativity in mental calculations				
			using formal written layout		Calculations				
Consolidation	Number: Fractions	Number: Place Value	Number: Addition and	Number: Multiplication and	Number: Multiplication and	Number: Fractions & Decimals			
	(Year 3, Spring 2 &	(Year 4, Autumn 1)	Subtraction	Division	Division	(Year 4, Spring 2 & Summer 1)			
(To be Included	Summer 1)	,	(Year 4, Autumn 1)	(Year 4, Autumn 2 & Spring 1)	(Year 4, Autumn 2 & Spring 1)	,			
in Arithmetic									
Lessons)									
Mental Maths		ecuring Numbers, Ordering and Cor	nparing): Count in 1s across bound	aries 1000, 10,000, 100,000; Order a se	t of random numbers to 100,000; Co	mpare numbers using symbols <			
	and < up to 100,000								
	Number and Place Value (Co	ounting): Count in 10, 100s, 1000s f	orwards and backwards across hou	ndaries 1000, 10,000, 100,000; What is	10, 100, 1000 more/less than 2: Ro	ound any number to the nearest 10			
	•	s with one decimal place to the nea			20, 200, 2000 more/iess than; it	dana any manistra to the hearest 10,			
		200 of 2000, notified declinals with one declinal place to the flediest whole number							
	Addition and Subtraction (M	fultiples): Add any multiple of 10 to	o a 4-digit number <i>e.g.,2153 + 20, 2</i>	153 + 70 (regrouping); Add any multiple	e of 100 to a 4-digit number e.g.2153	+ 100, 2153 + 300, 2153 + 900			
	(regrouping)								
	Multiplication and Division (Doubling Numbers / Near Doubles): Near doubles to multiple of 10 e.g., 60 + 59; Double simple 3-digit numbers by recall of known facts or partitioning and recombining (multiples								
				.g., 60 + 59; Double simple 3-digit numb	pers by recall of known facts or partit	ioning and recombining (multiples			
	of 10, 50, 100 <i>) e.g. double 2</i> 0	00, double 250, double 220, half of 2	140.						
	Multiplication and Division ((Order of Operations): Multiplication	on and division of whole numbers h	y 10 and 100 and multiples of $e.g., 6 \times 1$	00 10 x 100 16 x 100 16 x 300 etc.	Distributive law e a 39 x 7= 30 x 7+			
	•	• • • • • • • • • • • • • • • • • • • •		$q. 2 \times 6 \times 5 = 10 \times 6$; Multiply by 50 by n		5 .			
	•	•							
	table facts and the related division facts e.g. $500 \times 2 = 1000$, $1000 \div 2 = 500$, $250 \times 4 = 1000$, $1000 \div 4 = 250$, $200 \times 5 = 1000$, $1000 \div 5 = 200$; Know facts linked to measures e.g. £5.00 × 2 = £10.00, £500 × 2 = £10.00, £500 × 2 = £10.00, £2.50 × 4 = £10.00, £250 × 4 = £10.00, £2.00 × 5 = £10.00, £200 × 5								
	Multiplication and Division ((Rounding and Adjusting): Roundin	g and adjusting decimals in context	of money e.g, 3 items costing 99p or £.	1.99				
	For the confidence of the			the deadle and the second	ha a a a a a a a a a a a a a a a a a a	and the standard stan			
				n hundredths; compare numbers with t		1 1 2			
	decimals with one decimal p	lace to the nearest whole number;	recognise and write decimal equiva	llents of any number of tenths or hundr	edths, recognise and write decimal e	equivalents to /4; /2; /4			
55 Club	34 Club D, E, F		45 Club A, B, C		45 Club D, E, F				
(Multiplication	•	up to 12x in any order, including	Recall multiples of 6 in any order	including missing numbers and	Recall multiples of 9 in any order, in				
•	missing numbers and related	•	related division facts fluently		5 5	fluency (using 10x and adjusting by			
and Division	-	up to 12x6, using multiples of 3	Recall multiples of 7 in any order		1 group to find 9x as a strategy)				
Facts)	to support		related division facts with growin	~ · · · · · · · · · · · · · · · · · · ·	Recall multiples of 11 in any order,	including missing numbers and			
•	Fluently count in 7s in order	up to 12x7	Fluently count in 9ss in order up		related division facts fluently	12:12			
			Fluently count in 11ss in order up	(O 12X11	Fluently count in 12s in order up to) 12X1Z			



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Communication Responsibility Responsibility Collaboration Resilience	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Core Curriculum	Number: Place Value 1000s,100s,10s and 1s Numbers to 10000 Round to nearest 10,100 and 1000 Numbers to 100000 Compare and order numbers to 100000 Round numbers within 100000 Numbers to a million Counting in 10s,100s,1000,1000 Os and 100000s Compare and order numbers to one million Round numbers to one million Round numbers to one million Negative numbers Roman numerals to 1000 Number: Addition and Subtraction Add two 4 digit numbers-one exchange then more than one exchange Add whole numbers with more than 4 digits (column method)	• Interpret charts • Comparison, sum and difference • Read and interpret line graphs • Draw line graphs • Use line graphs to solve problems • Read and interpret tables • Two-way tables • Timetables Number: Multiplication and Division • Multiples and factors • Common factors • Prime numbers • Square numbers and cube numbers • Multiply by 10 and 100 • Multiply by 10 and 100 • Multiply by 10 and 100 • Divide by 10,100 and 1000 • Divide by 10,100 and 1000 • Multiples of 10,100 and 1000 • Measurement: Perimeter and Area • Measure perimeter • Perimeter on a grid • Perimeter of rectangles and rectilinear shapes	Number: Multiplication and Division Multiply 2 and 3 digits by 1 digit Multiply 4 digits by 1 digit Multiply 2 digits (area model) Multiply 2,3 and then 4 digits by 2 digits Divide 2,3 then 4 digits by 1 digit Divide with remainders	Number: Fractions Equivalent fractions Fractions greater than 1 Improper fractions to mixed numbers Mixed numbers to improper fractions Number sequences Compare and order fractions greater and less than 1 Add and subtract fractions Add fractions within 1 Add 3 or more fractions Add mixed numbers Subtract fractions and mixed numbers Subtract 2 mixed numbers Multiply unit then non-unit fractions by an integer Calculate fractions of a quantity Fraction of an amount Using fractions and Percentages Decimals and Percentages Decimals as fractions Understand thousandths Thousandths as decimals Rounding decimals Order and compare decimals Understand percentages	Number: Decimals Adding and subtracting decimals within 1 Complements to 1 Adding decimals-crossing the whole Adding and subtracting decimals with the same number of decimal places Adding and subtracting decimals with a different number of decimal places Adding and subtracting wholes and decimals Decimal sequences Multiplying and dividing decimals by 10,100 and 1000 Geometry: Properties of Shape Identify, compare and order angles Measure angles in degrees Measure with a protractor Draw lines and angles accurately Calculate angles on a straight line and around a point Triangles and quadrilaterals Calculate length and angles in shapes Regular and irregular polygons	Geometry: Position and Direction Describe position Draw on a grid Position in the first quadrant Translation Translation with coordinates Lines of symmetry Complete a symmetrical figure Reflection Reflection with coordinates Measurement: Converting Units Kilograms and kilometres Millimetres and millilitres Metric units Imperial units Converting units of time Timetables Measurement: Volume What is volume? Compare volume Estimate capacity

	Subtract two 4 digit numbers-one exchange then more than one exchange Round to estimate and approximate Inverse operations (addition and subtraction) Multi-step addition and subtraction problems	Calculate perimeter Counting squares Area of rectangles Area of compound shapes and irregular shapes		 Percentages as fractions and decimals Equivalent F.D.P 	Reasoning about 3-D shapes	
New Vocabulary for Y5	Multiplication and Division: Fractions: proper fractions, i Measurement: volume, cond	improper fractions, mixed numbers cave, convex breadth imperial units	to 12x12 factor pairs composite no percentage /metric units inches, pounds, pint:	·	square number, cubed number	
Continuous Curriculum (Maths Meetings)	Statistics: average Statistics Interpret charts; Comparison, sum and difference; Read and interpret line graphs; Draw line graphs; Use line graphs to solve problems; Read and interpret tables; Two-way tables; Timetables Number: Fractions, Decimals & Percentages Equivalent fractions; Fractions greater than 1; Improper fractions to mixed numbers; Mixed numbers to improper fractions; Number sequences; Compare and order fractions greater and less than 1; Add and subtract fractions; Add fractions within 1; Add 3 or more fractions; Add mixed numbers; Subtract fractions and mixed numbers; Subtract-breaking the whole; Subtract 2 mixed numbers; Multiply unit then non-unit fractions by an integer; Calculate fractions of a quantity; Fraction of an amount; Using fractions as operators; Decimals up to 2 d.p.; Decimals as fractions; Understand thousandths; Thousandths as decimals; Rounding decimals; Order and compare decimals; Adding and subtracting decimals with the same number of decimal places; Adding and subtracting decimals with a different number of decimal places; Adding and subtracting wholes and decimals; Decimal sequences; Multiplying and dividing decimals by 10,100 and 1000; Understand percentages; Percentages as fractions and decimals; Equivalent F.D.P Geometry: Properties of Shape Identify, compare and order angles; Measure angles in degrees; Measure with a protractor; Draw lines and angles accurately; Calculate angles on a straight line and around a point; Triangles and quadrilaterals; Calculate length and angles in shapes; Regular and irregular polygons; Reasoning about 3-D shapes Geometry: Position and Direction Describe position; Draw on a grid; Position in the first quadrant; Translation; Translation with coordinates; Lines of symmetry; Complete a symmetrical figure; Reflection; Reflection with coordinates					
Arithmetic Fluency (Key Focus)	Counting Count forwards and backwards in steps of powers of 10 for any given number up to 100000- interpret negative numbers in context Count forwards and backwards with positive	Number facts (+ -) Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers Know and use the vocabulary of prime numbers, prime factors and composite numbers	Mental (+ -) Add and subtract numbers mentally with increasing accuracy Written (+ -) Add and subtract whole numbers with more than 4 digits, including using formal written methods	Fractions and decimals Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements>1 as a mixed number Add and subtract mixed numbers Add and subtract improper fractions	Mental Multiply and divide numbers mentally drawing upon known facts Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	Written (x ÷) Multiply numbers up to 4 digits by a one or two digit number using a formal written method, including long multiplication for two digit numbers Divide numbers up to 4 digits by a one digit number using the formal written method of short

Consolidation (To be Included in Arithmetic Lessons)	and negative whole numbers, including through zero Number: Fractions & Decimals (Year 4, Spring 2 & Summer 1)	Establish whether a number up to 100 is prime and recall prime numbers up to 19 Number: Place Value (Year 5, Autumn 1)	Add and subtract square and cubed numbers Number: Addition and Subtraction (Year 5, Autumn 1)	Multiply proper fractions and mixed numbers Number: Multiplication and Division (Year 5, Autumn 2 & Spring 1)	Number: Fractions, Decimals and Percentages (Year 5, Spring 2)	division and interpret remainders appropriately for the context Number: Fractions, Decimals and Percentages (Year 5, Spring 2)		
Mental Maths	Number and Place Value (Securing Numbers, Ordering and Comparing): Count in 1s forwards and backwards across boundaries 1000, 10,000, 100,000, 100,000; Read, write, order and compare numbers to at least 1,000,000 and determine the values of each digit e.g., What is the value of the 6 in 681,927? Number and Place Value (Counting): Count in 10, 100s, 1000s forwards and backwards across boundaries 1000, 10,000, 100,000, 100,000; What is 10, 100, 1000 more/less than? Counting forwards and backwards in powers of 10 from any given number up to 1,000,000 e.g. 30, 60, 90 etc; count in 10,000s from 329,109; round any number up to 1000000 to the nearest 10, 100, 1000, 10000 and 100000; round decimals with two decimal places to the nearest whole number and to one decimal place; Interpret negative numbers in context, count forwards and backwards with + and – numbers including zero e.g. continue the sequence -7, -14, -21 etc Addition and Subtraction (Multiples): Add any multiple of 10/100 to a 4 digit number e.g. 2153 + 110, 2153 + 330, 2153 + 350, 2153 + 910, 2153 + 950; Add and subtract numbers mentally with increasingly large numbers e.g. what is 12,463 – 23,000? Multiplication and Division (Doubling Numbers / Near Doubles): Near doubles to multiples of 10 or 100 e.g. 198+198; Double simple 3/4 digit numbers by recall of known facts or partitioning and recombining (multiples of 10, 50, 100) e.g. double 200, double 250, double 250, double 250, double 26, half of 140; Double decimals to 1/2dp e.g. 0.3 x 2 (no regrouping), 0.6 + 0.6 or 0.6 x 2 (regrouping) Near doubles 0.16 + 0.17 or 0.16 x 2 focus on regrouping after not regrouping Multiplication and Division (Order of Operations): Multiplication and division of whole numbers by 10 and 100 and 1000; Use partitioning and recombining to calculate mentally e.g. 14 x 1000, 14 x 1200; Use cubed and squared to express calculations e.g. 3 x 3 x 5 = 3² x 5; Multiply pairs of multiples of 10 and 100 and 1000 and adjust e.g. 99 x 15; Use 100 x 15; Use arrays to show how to a							
55 Club (Multiplication and Division Facts)	and related number facts flu Recall multiples of 12 in any	order, including missing numbers th growing fluency (using 10x and	55 Club D, E, F Recall multiples of 12 in any orderelated number facts fluently Recall multiples of all times table missing numbers and related divi	s up to 12x12 in any order, including	55 Decimal Parts 1-5 Recall multiples of all times tables umissing numbers and related division fluently	, , ,		



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Communication Responsibility Independence Collaboration Curiosity Courage	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Core Curriculum	Number: Place Value Numbers to 10000 and 100000 Numbers to a million and ten million Compare and order any number Round numbers to 10,100 and 1000 Round any number Negative numbers Number: Addition and Subtraction, Multiplication and Division Add and subtract whole numbers with more than 4 digits Inverse operations (addition and subtraction) Multi-step addition and subtract integers Multiply 4 digits by 1 digit Multiply 2 digits (area model) Multiply 2 digits (area model) Multiply 4 digits Multiply 2 and 3 digits by 2 digits Multiply a 4 digit number	Number: Fractions	Number: Decimals Decimals up to 2 decimal places Understand thousandths Three decimal places Multiply and divide by 10,100 and 1000 Multiply and divide decimals by integers Division to solve problems Decimals as fractions Fractions to decimals Number: Percentages Understand percentages Fractions to decimals	Measurement: Converting Units Metric measures Convert metric measures Calculate with metric measures Miles and kilometres Imperial measures Measurement: Perimeter, Area and Volume Shapes-same area Area and perimeter Area of a triangle Area of a parallelogram Volume-counting cubes Volume of a cuboid Number: Ratio Using ratio language Ratio and fractions Introduce the ratio symbol Using scale factors Calculate scale factors Ratio and proportion problems	 Geometry: Properties of Shape Measure with a protractor Draw lines and angles accurately Angles on a straight line and around a point Calculate angles Vertically opposite angles Angles in a triangle (special and missing) Angles in special quadrilaterals Angles in regular polygons Draw shapes accurately Draw nets of 3-D shapes Statistics Read and interpret line graphs Draw line graphs Use line graphs to solve problems Circles Read and interpret pie charts Pie charts with percentages Draw pie charts The mean 	Y7 Transition

New Vocabulary for Y6	Divide 4 digits by 1 digit Divide with reminders Short division Division using factors Long division Common factors and multiples Primes to 100 Squares and cubes Order of operations Mental calculations and estimation Reason from known facts facts Multiplication and Division: order of operations Multiplication and Division: order of operations Multiplication and Division: order of operations Multiplication and Division: order of operations, common factors, common multiples, factorise Fractions: degree of accuracy, simplify Algebra: algebra, algebraically express ratio proportion linear number of sequence substitute, variables, symbol, known values Geometry (Position and Direction): Four quadrants							
	Geometry (Properties of Shape): circumference, radius, diameter, arc, congruent, dodecahedron Statistics: mean, median, range pie chart construct							
Continuous Curriculum (Maths Meetings)	Number: Fractions Equivalent fractions; Simplify fractions; Improper fractions to mixed numbers; Mixed numbers to improper fractions; Fractions on a number line; Compare and order(numerator, denominator); Add and subtract fractions; Add mixed numbers; Subtract mixed numbers; Subtract fractions; Mixed addition and subtraction; Multiply fractions by integers; Multiply integers by fractions; Divide fractions by integers; Four rules with fractions; Fractions of an amount-find the whole Geometry: Position and Direction The first quadrant; Four quadrants; Translations; Reflections							
	Number: Decimals Decimals up to 2 decimal places; Understand thousandths; Three decimal places; Multiply and divide by 10,100 and 1000; Multiply and divide decimals by integers; Division to solve problems; Decimals as fractions; Fractions to decimals Number: Percentages Understand percentages; Fractions to percentages; Equivalent FDP; Order FDP							
	Measurement: Converting Units Metric measures; Convert metric measures; Calculate with metric measures; Miles and kilometres; Imperial measures Measurement: Perimeter, Area and Volume Shapes-same area; Area and perimeter; Area of a triangle; Area of a parallelogram; Volume-counting cubes; Volume of a cuboid Number: Ratio Using ratio language; Ratio and fractions; Introduce the ratio symbol; Using scale factors; Calculate scale factors; Ratio and proportion problems							

Arithmetic Fluency (Key Focus)	S		Mental (+ -) Perform mental calculations including with mixed operations	Draw nets of 3-D shapes les; Read and interpret pie charts; Pie cl Fractions and decimals Divide proper fractions by whole numbers	narts with percentages; Draw pie cha Fractions and decimals Multiply one digit numbers with	Mental
Arithmetic Fluency (Key Focus)	Counting Use negative numbers in context and calculate intervals across zero Written (+ -) Multiply multi-digit numbers up to 4 digits by a	Number facts (+ -) Identify common factors, common multiples and prime numbers Written (+ -)	Mental (+ -) Perform mental calculations including with mixed operations	Fractions and decimals Divide proper fractions by whole	Fractions and decimals	Mental
Arithmetic Fluency (Key Focus)	Counting Use negative numbers in context and calculate intervals across zero Written (+ -) Multiply multi-digit numbers up to 4 digits by a	Number facts (+ -) Identify common factors, common multiples and prime numbers Written (+ -)	Mental (+ -) Perform mental calculations including with mixed operations	Fractions and decimals Divide proper fractions by whole	Fractions and decimals	Mental
	method of long multiplication	by a two digit number using the formal written method of short division where appropriate, interpreting remainders according to context	Written (+ -) Divide numbers up to 4 digits by a two digit whole number using the formal method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context	Identify the value of each digit in numbers given to 3 decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to 3 decimal places	up to 2 decimal places by whole numbers	Perform mental calculations, including with mixed operations and large numbers
Consonation	Number: Decimals (Year 5, Summer 1)	Number: Place Value (Year 6, Autumn 1)	Number: Addition and Subtraction, Multiplication and Division (Year 6, Autumn 1)	Number: Fractions, Decimals and Percentages (Year 6, Autumn 2 & Spring 1)	Number: Addition and Subtraction, Multiplication and Division (Year 6, Autumn 1)	Number: Fractions, Decimals and Percentages (Year 6, Autumn 2 & Spring 1)
	1 million – 5 etc; What is 0.1, degree of accuracy; Use nega Addition and Subtraction (M involving the four operations you spend £1.45 and then £2. Multiplication and Division (I regrouping after not regrouping Multiplication and Division (I Perform mental calculations, Multiplication and Division (I Fractions Decimals and Percesubtract fractions with different numbers e.g. 1/3 ÷ 2; Identify numbers e.g. 0.09 x 12; Recal	0.01 more than/less than?; Routive numbers in context and calculative numbers: Perform mental calculative e.g. what is 2 + 7 x 6?; Solve addit .57?; Perform mental calculations, Doubling Numbers / Near Double ing Order of Operations): Multiply and including with mixed operations a Rounding and Adjusting): 999 x 16 entages (Comparing, Ordering and ent denominators and mixed numley the value of each digit in number	and any whole number to a require late intervals across zero <i>e.g.</i> What ons, including with mixed operation and subtractions multi-step proincluding with mixed operations are: s): Double decimals to 1dp <i>e.g.</i> 0.3 d divide decimals using knowledge and large numbers <i>e.g.</i> , 7000 x 0.9; f, 1000 x 16 and adjust, 101 x 16; E: l Calculating): Compare and order to pers, using the concept of equivalers as given to 3DP; x and ÷ numbers by	x 2 (no regrouping), $0.6 + 0.6$ or $0.6 x 2$ of place value $e.g.3 x 0.5$, $15 x 0.6$; Revis	78 to nearest million; round any who $^{\circ}C$ 4; Use knowledge of the order of operations and methods to use and why experience of the order of operations and methods to use and why experience of the order of the	the number or decimal to a required enumber or decimal to a required entations to carry out calculations e.g. How much change from £10 if $0.17 \text{ or } 0.16 \times 2$; Focus on combining and using place value. e.g. 0.99×16 ($< \text{or } > \text{or } =$) $14/6 \ 139/48$; Add and $/5$; Divide proper fractions by whole number with up to 2DP by whole
JJ CIUD	Consolidation Recall multiples of all times to	ables up to 12x12 in any order, inc	luding missing numbers and related	d division facts (including decimals) flue	ntly	