

Maths Medium Term Plan

			Reception			
	Αι	utumn	Sp	ring	Sum (In summer 2, when using Ma assess time' do this <u>in add</u> measure and spatial reas	m er astering number 'review and lition to the shape, space, oning lessons on this plan)
Mathematical Concepts Covered Red- NCETM Mastering Number Blue= White Rose	 Subitising with Counting, Orce Cardinality Composition of Subitising objection Comparison of Counting, orde Cardinality (2) Comparison of Composition- Composition- Composition- Counting, Orce Cardinality- of matching nur Match, Sort and Talk About Meteric Circles and Trises with 4 	in 3 dinality and of 3 and 4 ects and sounds of sets by looking linality and) of sets by matching whole and part 3,4 and 5 dinality and bject counting, meral to quantity nd Compare. easure and Patterns iangles sides	 Subitising within 5 Counting, Ordinality Cardinality-staircase Composition- 5 Composition- 6 and Composition- sets Counting, Ordinality Cardinality- ordering Comparison- to 8 Composition- 7 Composition- doub Composition- odd c Mass and Capacity Length, Height and 3D Shapes 	r and e pattern 7 r and 9 les and even Time	 Counting, Ordin and Cardinality- Subitising to 6 Composition- 5 of Composition- 10 Comparison- linit Summer 2- Revise Manipulate, Con Decompose Visualise, Map a 	ality - larger sets and a bit) ked to ordinality ew and Assess mpose and Ind Build
Week 1	Baseline AND intro to maths lessons through: • Match objects • Match pictures and objects • Identify a set (MATCH, SORT AND COMPARE)	Focus on counting skills Focus on the 'five-ness of 5' using one hand and the die pattern for 5 -w6	Subitise within 5 focusing on die patterns Match numerals to quantities within 5 -w11	Focus on the 'staircase' pattern and ordering numbers -w16	Counting – larger sets and things that cannot be seen -w21	Subitise to 5 Introduce the Rekenrek -w26



	Subitising within 3 -w1					
Week 2	Focus on counting skills -w2	Comparison of sets - by Matching Use the language of comparison: more than, fewer than, an equal number- w7	Counting – focus on ordinality and the 'staircase' pattern See that each number is one more than the previous number –w12	Focus on ordering of numbers to 8 Use language of less than -w17	Subitising – to 6, including in structured arrangements -w22	Review and Assess- Automatic recall of bonds to 5 (FIND THE STEPS BELOW IN: VISUALISE, BUILD AND MAP) Identify units of repeating patterns • Create own pattern rules • Explore own pattern rules
Week 3	Explore how all numbers are made of 1s Focus on composition of 3 and 4 -w3	Explore the concept of 'whole' and 'part' -w8	Focus on 5 composition- w13	Focus on 7 composition -w18	Composition – '5 and a bit' -w23	Review and Assess- Composition of numbers to 10 (FIND THE STEPS BELOW IN: VISUALISE, BUILD AND MAP) Replicate and build scenes and constructions • Visualise from different positions • Describe positions • Give instructions to build
Week 4	Subitise objects and sounds -w4	Focus on the composition of 3, 4 and 5- w9	Focus on 6 and 7 as '5 and a bit' composition -w14	Doubles – explore how some numbers can be made with 2 equal parts -w19	Composition - of 10 -w24	Review and Assess- Comparison (FIND THE STEPS BELOW IN: VISUALISE, BUILD AND MAP) Explore mapping • Represent maps with models • Create own maps from familiar places • Create own maps and plans from story situations
Week 5	Comparison of sets - 'just by looking'	Practise object counting skills	Compare sets and use language of comparison: more than, fewer than, an	Sorting numbers according to attributes - odd and even numbers	Comparison – linked to ordinality Play track games –w25	Review and Assess- Number patterns



	Use the language	Match numerals to	equal number to	-w20		
	of comparison:	quantities within 10	Make unequal sets equal			
	more than and	Verbal counting	-w15			
	fewer than – w5	beyond				
		20- w10				
Week 6	(FIND THE STEPS	(FIND THE STEPS	(FIND THE STEPS BELOW	(FIND THE STEPS BELOW	(FIND THE STEPS BELOW	Review and Assess-
	BELOW IN:	BELOW IN: CIRCLES	IN: MASS AND CAPACITY)	IN: LENGTH, HEIGHT AND	IN: MANIPULATE,	Counting
	MATCH, SORT	AND TRIANGLES)	Compare mass	TIME AND 3D SHAPES)	COMPOSE AND	
	AND COMPARE)	Identify and name	• Find a balance	•Talk about, order and	DECOMPOSE)	
	Sort objects to a	circles and triangles	• Explore capacity	sequence time	Select shapes for a	
	type	Compare circles and	Compare capacity	Recognise and name 3-D	purpose	
	• Explore sorting	triangles		shapes	Rotate shapes	
	techniques	Shapes in the		• Find 2-D shapes within	Manipulate shapes	
	Create sorting	environment		3-D shapes	• Explain shape	
	rules	Describe position		• Use 3-D shapes for	arrangements	
	Compare			tasks		
	amounts					
Week 7	(FIND THE STEPS	(FIND THE STEPS	(FIND THE STEPS BELOW	(FIND THE STEPS BELOW	(FIND THE STEPS BELOW	
	BELOW IN: TALK	BELOW IN: SHAPES	IN: LENGTH, HEIGHT AND	IN 3D SHAPES)	IN: MANIPULATE,	
	ABOUT MEASURE	WITH 4 SIDES)	TIME)	3-D shapes in the	COMPOSE AND	
	AND PATTERNS)	Identify and name	Explore length	environment	DECOMPOSE)	
	Compare size,	shapes with 4 sides	 Compare length 	Identify more complex	Compose shapes	
	mass and capacity	Combine shapes with	 Explore height 	patterns	 Decompose shapes 	
	Explore simple	4 sides	 Compare height 	Copy and continue	 Copy 2-D shape pictures 	
	patterns	 Shapes in the 		patterns	• Find 2-D shapes within 3-	
	 Copy and 	environment		Patterns in the	D shapes	
	continue simple	 My day and night 		environment		
	patterns					
	Create simple					
	patterns					

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							Autum	n Term							
		1	2	3	4	5	6	7	8	9	10	11	12		
			Numb	er: Place value w	ithin 10		Number: Addi	tion and Subtrac	tion within 10			Geometry: Sha	pe		
Year I	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15.	Sort obj Count o Represe Recogni Count o 1 more Count b 1 less Compar Fewer, n Less tha Compar Order o The nur	ects bjects bjects from a lar ent objects se numbers as v n from any num ackwards within e groups more, same in, greater than, e numbers bjects and numb nber line	rger group vords ber 10 equal to pers			 Introduce Part who Write nu Fact fam Fact fam Number Systema Number Addition Addition Find a pa Subtract 'subtract Fact fam 	e part and whole ole model imber sentences ilies – addition fa bonds within 10 tic number bond bonds to 10 – add together – – add more – ne problems art ion – find a part tion' ilies – the eight f	es acts s within 10 – us - e.g. 4 + 3 ew terminology – making link be facts - + +	ing tools '4 more' etween finding a	a part and	 Recognis D shapes Sort 3-D groups / Recognis 2-D shap Sort 2-D Patterns 3-D shapes tangible shapes touch and feel, real life context 	e and name 3- shapes – into Venn se and name es shapes with 2-D and es t as these are s that they can see mostly in t.		
							National Curriculum Links								
	 Connun Con Giv Ide inc (fet) 	unt to ten mber. unt, read ven a num entify and luding the wer), mos	, forwards and ba and write number ber, identify one r represent numbe number line, and t, least.	ckwards, beginning s to 10 in numerals more or one less. rs using objects an d use the language	g with 0 or 1, or fro s and words. d pictorial represe of: equal to, more	om any given Intations I than, less than	 Represent an Read, write a subtraction (- Add and subt Solve one ste objects and p 	d use number bon nd interpret mathe -) and equals (=) sig ract one-digit num p problems that in ictorial representa	thin 10. tion (+), ng concrete ıs.	 Recognise and common 2-D including: (e.g (including squ and triangles) Recognise and common 3-D including: (e.g (including cub and spheres). 	d name shapes, g. rectangles lares), circles l. d name shapes, g. cuboids pes), pyramids				



					Spring	g Term					
1	2	3	4	5	6	7	8	9	10	11	12
Num	ber: Place value	e within 20	Number: within 20	Addition and S	ubtraction	Number: Place (within 50)	Value	Measurement: Height	Length and	Measurement: Volume	Mass and
 Count with Understan Understan Understan Understan Understan Understan Understan I more 1 h The numb Use a num Estimate of Compare n Order num In the Autumn tee In this small step Use concrete rest to support childr 	nin 20 Id 10 – showing Id 11,12,13 Id 14,15,16 Id 17,18,19 Id 20 – ers – er line to 20 ober line to 20 ober line to 20 ober line to 20 ober line to 20 erm, children lear o, they extend that ources ren to see the "10	10 e to 20 nt the numbers to 10. t learning to count to -and-a-bit" structure	 Add Add Find Find Doul Near Subt Subt Subt Subt Subt Subt Subt Guild on the from 10 ra Children sh addition is efficient to than the sr out 1 + 13, add 1 to 13 	by counting on ones using nur and make num bles r doubles ract ones using raction – coun raction – findir ted facts ing number pro- ther than from 1 bould begin to un commutative an o start from the g maller number. E it is quicker to 3 than to add 13	nber bonds nber bonds nber bonds to 20 g number bonds ting back ng the difference oblems <i>be able to count on</i> <i>conderstand that</i> <i>to 1.</i>	 Count from 20, 30, 40 a Count by m of tens Groups of t ones Partition in ones The number Estimate on line to 50 1 more 1 les In this small step, count forwards a between 20 and 3 Number tracks an hundred squares representations t children counting 	and 50 and 50 naking groups tens and to tens and er line to 50 n a number ess , children nd backwards 50. and half- are useful to support n to 50.	 Compare le heights Measure le objects Measure le centimetre In this small step, compare lengths objects using lang "longer than", "s and "taller than" Children should a to objects that he length or height of language of "is that or "is equal to" to 	engths and engths using engths using s children and heights of guage such as horter than" ulso be exposed ave the same and use the be same" o compare.	 Heavier a Measure Compare Full and Compare Full and Compare Measure Compare Measure Compare Termally introduction the first time. The some understand describing some or light from the experience or from previous learning They then use boo check their comp need to understation heavier object is balance scale. 	and lighter e mass e mass empty e volume e capacity e capacity e capacity for the mass for ey may have ding of thing as heavy ir own om g in Reception. alance scales to parisons. They and that the lower on the
			1		National Cur	riculum Links		Ī		Γ	
 Count to twen with 0 or 1, fro Count, read ar and words. Given a numb Identify and re pictorial repre and use the la than (fewer), n 	ity, forwards and om any given num nd write numbers er, identify one n epresent number sentations includ nguage of: equal most, least.	backwards, beginning nber. 5 to 20 in numerals nore or one less. 5 using objects and ling the number line, to, more than, less	 Represe related Read, w stateme subtrac Add and number Solve o addition objects missing 9. 	ent and use num subtraction fact vrite and interpre- ents involving ad tion and (-) and d d subtract one-d rs to 20, includin ne step problem n and subtraction and pictorial rep number probler	ber bonds and s within 20. et mathematical dition (+), equals (=) signs. igit and two-digit g zero. s that involve n, using concrete presentations, and ns such as 7=	 Count to 50 fc backwards, be or 1, or from a Count, read an numbers to 50 Identify one m less. Identify and re numbers using pictorial repre- number line, u language of: e than, less thar Count in 2s, 55 	orwards and eginning with 0 any number. nd write D hore or one epresent g objects, esentations, the use the equal to, more n s, 10s	 Measuremer Height Meas record length Compare, de practical prol lengths and h example, lon longer/short double/half). 	It: Length and ure and begin to as and heights. scribe and solve olems for: heights (for g/short, er, tall/short,	 Measuremen Volume Meas to record mas capacity and Compare, des practical prot mass/weight: heavy/light, h lighter than]; volume [for e full/empty, m than, half, ha 	t: Weight and sure and begin ss/weight, volume. scribe and solve olems for [for example, neavier than, capacity and xample, nore than, less If full, quarter].

1234Number: Multiplication and DivisionNumber: F1.Count in 10s.1.2.Make equal groups.1.3.Add equal groups.2.4.Make arrays.2.5.Make doubles.3.6.Make equal groups – grouping.7.Make equal groups – sharing4.Find a qua quantity7.Make equal groups – sharing9.Count in multiples of twos, fives and tens.9.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.9.Recognise, f name a qual of four equal of four equal	5 G iractions G iractions Po apes or 1. quantity. 2. inter of a H object. 3. irter of a H object. 3. irter of a H object. S. inter of a H	6Geometry: Position and DirectionDescribe1.turns.2.Describe3.Position (1).4.Describe5.Position (2).6.National CurricuDescribe position,•	78Number: Place Value (within 100)1.Counting to 100.2.Partitioning numbers3.Comparing numbers4.Comparing numbers5.Ordering numbers.6.One more, one less.	9 Measurement 1. Recognisir 2. Recognisir (1). 3. Counting i (2). 00, • Recognise a	10 :: Money ng coins. ng notes. n coins. n d know	11Measurement1. Before and after.2. Dates.3. Time to the hour.4. Time to the half h5. Writing time.6. Comparing time.• Sequence in chronometer	12 t: Time
Number: Multiplication and Division Number: F 1. Count in 10s. 1. Halving sh 2. Make equal groups. 2. Halving a c 3. Add equal groups. 2. Halving a c 4. Make arrays. 2. Halving a c 5. Make doubles. 3. Find a qua 6. Make equal groups – grouping. 4. Find a qua 7. Make equal groups – sharing 4. Find a qua 9. Count in multiples of twos, fives and 4. Find a qua 9. Count in multiples of twos, fives and 5. Nake equal groups – sharing 9. Count in multiples of twos, fives and 5. Nake equal groups – sharing 9. Count in multiples of twos, fives and 5. Recognise, f 9. Count in multiples of twos, fives and 5. Recognise, f 9. Solve one step problems involving 9. Recognise, f 9. Solve one step problems involving 9. Recognise, f 9. Solve one step problems involving 9. Recognise, f 9. Solve one step problems involving 9. Recognise, f 9. Solve one step problems involving 9. Recognise, f 9. Solve one step problems involving 9. Recognise, f 9. Solve one step problems involving 9. Recognise, f 9. Solve one step problems involving	ractions G Po apes or 1. I quantity. 2. I object. 3. I inter of a 3. I find and 5 as one of po	Geometry: Position and DirectionIDescribe1.turns.2.Describe3.Position (1).4.Describe5.Position (2).6.National CurricularDescribe•position,•	Number: Place Value (within 100) 1. Counting to 100. 2. Partitioning numbers 3. Comparing numbers 4. Comparing numbers. 5. Ordering numbers. 6. One more, one less. culum Links Count to and across 10 forwards and backwards	Measurement 1. Recognisir 2. Recognisir (1). 3. Counting i (2). 00, • Recognise a	: Money ng coins. ng notes. n coins. nd know	Measurement 1. Before and after. 2. Dates. 3. Time to the hour. 4. Time to the half h 5. Writing time. 6. Comparing time. • Sequence in chronometric • Sequence in chronometric	t: Time
 Count in 10s. Make equal groups. Add equal groups. Make arrays. Make doubles. Make equal groups – grouping. Make equal groups – sharing Count in multiples of twos, fives and tens. Count in multiples of twos, fives and tens. 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. Recognise, final a quartity. Recognise, final a quartity. 	apes or 1. I quantity. 2. I inter of a 3. I inter of a 4 inter of a 4 find and 5 as one of 5	Describe 1. turns. 2. Describe 3. Position (1). 4. Describe 5. Position (2). 6. National Curricular Describe • position, •	 Counting to 100. Partitioning numbers Comparing numbers Comparing numbers. Ordering numbers. One more, one less. culum Links Count to and across 10 forwards and backwards 	1. Recognisir 2. Recognisir (1). 3. Counting i (2). 00, • Recognise a	ng coins. ng notes. n coins. nd know	 Before and after. Dates. Time to the hour. Time to the half h Writing time. Comparing time. • Sequence in chronomic sequence in chromic sequence in chronomic sequence in chronomic sequence in ch	iour.
 Count in multiples of twos, fives and tens. 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. Recognise, finame a half two equal p object, shap quantity. Recognise, finame a quantity. 	find and • Defas one of po	National Curricu Describe • position,	 culum Links Count to and across 10 forwards and backwards 	00, • Recognise a	nd know	Sequence in chron	
 Count in multiples of twos, fives and tens. 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. Recognise, finame a half two equal p object, shap quantity. Recognise, finame a quantity. 	ind and • De as one of po	Describeposition,	Count to and across 10 forwards and backwar	00, • Recognise a	nd know	Sequence in chrone	
an object, sł quantity. • Compare, de solve practio problems fo and heights example, lon longer/shor t, double/ha	arts of an din be or mi find and will rter as one qu al parts of th hape or tu escribe and cal or: lengths (for ng/short, ter,tall/shor alf)	direction and movement, including whole, half, quarter and three-quarter turns	 beginning with 0 or 1, from any given number Count, read and write numbers to 100 in numerals. Given a number, ident one more and one less Identify and represent numbers using objects and pictorial representations includ the number line, and u the language of: equal more than, less than, most, least. 	rds, the value of or different er. • denomination coins and no sify s. s. ding use l to,	ons of otes.	 using language: be next, first, today, y tomorrow, morning evening. Recognise and use relating to dates, ir of the week, weeks years. Tell the time to the past the hour and of hands on a clock fat these times. Compare, describe practical problems example, quicker, s later]. Measure and begin time (hours, minut 	ological order fore & after, esterday, g, afternoon language including days s, months and thour and half draw the ce to show and solve for time [for clower, earlier, to record es, seconds)

						Autum	in Term					
	1	2	3	4	5	6	7	8	9	10	11	12
Ī		Number: P	Place value	1		Number: /	Addition and Sub	traction			Geometry: Shap	be
	 Number Count o Recogni Place val Partition Partition Write no Flexibly Write no Flexibly Write no Ones 10s on t 10s and Estimate Compar Compar Order o Count in Count in 	s to 20 ojects to 100 by n se tens and ones ue chart numbers to 100 imbers to 100 in partition number imbers to 100 in o ne number line to 1s on the numbe numbers on a number objects e numbers ojects and numbe 2s, 5s and 10s 3s	naking 10s words is to 100 expanded form - to 100 ir line to 100 umber line	tens and	 Bonds to Fact familiandi and states Related familiandi and states Add and states Add and states Add three Add to th Add across Subtract and states Add and states Add two and states 	10 lies acts 100 (tens) subtract 1s y making 10 e 1-digit numbers e next 10 ss 10 across 10 from a 10 1-digit number fro 10 less subtract 10s 2-digit numbers (r 2-digit numbers (r dition and subtrac number sentence umber problems	om a 2-digit num not across 10) across 10) ction	per (across a 10)	 Recogni Count s Count v Draw 2- Lines of Lines of Sort 2-E Y1) Count fa Count fa Count v Sort 3-E Make pa 	se 2-D and 3-D ides on a 2-D ertices on 2-D D shapes symmetry on sha symmetry to con 9 Shapes (shapes i aces on 3-D shap ertices on 3-D shap ertices on 3-D shap ertices on 3-D shap atterns with 2-D a	pes nplete shapes not taught in es es npes nd 3-D shapes
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	 Read and words. Recognis number numbers number Compare = signs. Use place Count in number, 	write numbers to a e the place value of tens, ones) Identify using different rep ne. and order number value and number steps of 2, 3 and 5 f forward and backw	at least 100 in num f each digit in a two y, represent and es resentations includ s from 0 up to 100 r facts to solve prol from 0, and in tens yard.	nerals and in o-digit itimate ding the y; use <, > and blems. s from any	 Recall and use facts up to 100 Add and subtr mentally, inclu two-digit num Show that the subtraction of Solve problem representation their increasin Recognise and this to check c 	addition and subtra b. act numbers using o uding: a two-digit nu- bers; adding three o addition of two nur one number from a s with addition and ns, including those in g knowledge of men l use the inverse rela alculations and solv	action facts to 20 fl concrete objects, p umber and ones; a one-digit numbers. mbers can be done another cannot. subtraction: using nvolving numbers, ntal and written me ationship between re missing number	e and use related ations, and r and tens; two mmutative) and and pictorial easures; applying traction and use	 Identify an shapes, ind symmetry Identify an shapes, ind vertices an Identify 2-shapes, [for a triangle of compare a shapes and shapes an	d describe the prop cluding the number in a vertical line. Id describe the prop cluding the number of faces. D shapes on the sur or example, a circle on a pyramid]. and sort common 2- d everyday objects.	perties of 2-D of sides and line perties of 3-D of edges, face of 3-D on a cylinder and D and 3-D	

						Sprin	g Term					
	1	2	3	4	5	6	7	8	9	10	11	12
-	Measurem	ent: Money		Numbe	r: Multiplication	and Division		Measureme He	nt: Length and eight	Measure	ement: Mass, ca temperature	pacity and
/ear 2	 Count mon Count mon Pounds and Choose nc Make the Compare a money Calculate w Make a pc Find chang Two-step 	ney – pence ney – pounds of pence otes and coins same amount amounts of with money ound ge problems	1. Recog 2. Make 3. Add e 4. Introd 5. Multi 6. Use a 7. Make 8. Make 9. 2 time 10. Divide 11. Doub 12. Odd a 13. 10 time 14. Divide 15. 5 time 16. Divide 17. 5 and	gnise equal gro equal groups equal groups duce the multi plication sente rrays equal groups equal groups es table e by 2 ling and halvir and even num nes table e by 10 es table e by 5 l 10 times tabl	pups plication symbol ences – grouping – sharing bers bers	I		 Measure Measure Compare heights Order len Four oper lengths and 	in cm in m lengths and gth and heights rations with nd heights	 Compare Measure Measure Four oper Compare Measure Measure Measure Four oper capacity Temperation 	mass in grams in kilograms rations with mas volume and cap in millimetres in litres rations with volu ture	is acity ime and
						National Cu	rriculum Links					
	 Recognise a symbols for and pence amounts to particular v Find differe combinatio that equal t amounts of Solve simpl a practical a involving ac subtraction the same u giving chan 	and use pounds (£) (p); combine make a alue. alue. alue. ont ns of coins the same money. e problems in context ddition and of money of nit, including ge.	 Recall and u including rec Calculate ma multiplicatio equals (=) sig Solve proble repeated ad problems in Show that th (commutative) 	se multiplication cognising odd an athematical stat on tables and wr gn. ms involving me dition, mental r contexts. ne multiplication ve) and division	n and division fact nd even numbers. ements for multip ite them using the ultiplication and di nethods and multi n of two numbers of one number by	s for the 2, 5- and 10 plication and division e multiplication (x), o ivision, using materi plication and divisio can be done in any o r another cannot.	D-times tables, n within the division (÷) and als, arrays, n facts, including order	 Choose and standard uni measure len direction (m temperature (litres/ml) to appropriate scales, thern measuring v Compare an mass, volum record the re and =. 	use appropriate its to estimate and gth/height in any /cm); mass (kg/g); e (°C); capacity the nearest unit, using rulers, nometers and essels. d order lengths, e/capacity and esults using >, <	 Choose and estimate and direction (m (°C); capacit appropriate thermomete Compare an volume/cap >, < and =. 	use appropriate s d measure length/ /cm); mass (kg/g) y (litres/ml) to the unit, using rulers, ers and measuring d order lengths, n acity and record th	tandard units to 'height in any temperature nearest scales, vessels. nass, ne results using
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	1	2	3		4	5	6	7		8		9	10	11	12	
		Number: Fraction	ıs		Me	asurement: Time	2	Geo	ometry: dire	Position and ection		Stat	istics	Probl	em solving	
Year 2	 Make eq Recognis Find half Recognis Find a qu Recognis Find a th Unit fract NonOunit Equivaled Find three Count in 	ual parts. e half. e quarter. arter. e a third. ird. tions. t fractions. nce of 1/2 and 2/- e quarters. fractions.	4.	1. O 2. Q 3. Te 4. M 5. Fi 6. Co	'clock and uarter pas elling time finutes in a ind duratio ompare du	half past. It and quarter to. to 5 minutes. an hour, hours in ons of time. urations of time.	a day.	 Describing movement. Describing turns. Describing movement and turns. Making patterns with shapes. 			1. 2. 3. 4. 5. 6.	Make tally of Draw pictog Interpret pi 10). Interpret pi and 10). Block diagra	charts. grams (1-1). ctograms (1-1). grams (2, 5 and ctograms (2, 5 ams.			
							National Cu	rriculum	Links					-		
	 Recognise 1/3, 1/4, of objects Write sim = 3 and re 1 / 2 	rite fractions ngth, shape, set ample, 1/2 of 6 ence of 2/4 and	 Te in th tir Kr th Co 	ell and write cluding qua ne hands on mes. now the nu ne number o ompare and	e the time to five m arter past/to the ho a clock face to sho mber of minutes in of hours in a day. I sequence interval	hinutes, bur and draw bw these an hour and is of time.	Use to d and a str disti rota of ri and (cloc cloc • Ord com obje sequ	e mathen lescribe l movem raight lir inguishin ation as a ight ang l three-q ickwise a ckwise). ler and a nbination ects in p uences.	natical vocabulary position, direction ent; movement in ne and ng between a turn and in terms les for quarter, half uarter turns und anti- rrange ns of mathematical atterns and	•	Interpret and pictograms, f diagrams and Ask and answ questions by number of o category and categories by Ask and answ about totallin categorical d	d construct simple tally charts, block d simple tables. ver simple counting the bjects in each l sorting the y quantity. ver questions ng and comparing ata.				
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	1	2	3	4	5	6	7	8	9	10	11	12
		Number: Place V	/alue		N	umber: Addition a	and Subtraction		Nur	nber: Multiplic	ation and Divis	ion A
Year 3	 Repr Parti Num Hunc Repr Repr Parti Flexil Hunc Find Num Stim Com Orde Count 	esent numbers to tion numbers to 1 ber line to 100 dreds esent numbers to tion numbers to 1 ble partition of nu dreds, tens and on 1, 10 or 100 more ber line to 1000 nate on a number pare numbers to 100 tr numbers to 100 ti in 50s	100 .00 1000 .000 imbers to 1000 nes e or less line to 1000 1000 0	 Apply Apply Add a Add a Add a Add a Spot Add a Spot Add a Subtr Add a Subtr Make -5 = Add a Add a Subtr Subt	number bonds on nd subtract 1s nd subtract 10s nd subtract 100 the pattern – exp s across 100 act 1s across 100 act 1s across 100 act 10s across 100 act 10s across 100 act 10s across 100 connections – E 7, 120 – 50 = 70 wo numbers (no act two numbers (no act two numbers act two numbers (act act two numbers act two nu	within 10 s oloring the effect of c.g. if children know and 50 + 70 = 120 exchange) s (no exchange) ross 10) – column a ross 100) – column a s (across a 10) – co s (across a 10) – co s (across a 100) – co t numbers n a 3-digit number	f + and – 1s, 10s, a v 5 + 7 = 12, then th addition with exch addition with exch lumn subtraction e olumn subtraction	nd 100s hey also know that 12 ange hange exchange exchange	1. Multiplicat 2. Use arrays 3. Multiples of 4. Multiples of 5. Sharing an 6. Multiply by 7. Divide by 8. 3 times tak 9. Multiply by 10. Divide by 11. The 4 tim 12. Multiply b 13. Divide by 14. The 8 tim 15. 2, 4 and 8	ion – equal grou of 2 of 5 and 10 d grouping / 3 oles / 4 4 es table by 8 8 es table 8 times tables	μps	
				National Curriculum Links								
	 Identify, redifferent rediffe	ppresent and estima epresentations. 20 more or less the place value in a tens, ones). Ind order numbers u write numbers up to ds. ber problems and pu hese ideas. n 0 in 4, 8, 50 and 10	te numbers using three-digit number up to 1000. 0 1000 in numerals ractical problems 00.	 Add and subtract numbers mentally, including: a three-digit number and ones; a three-digit number and tens, a three-digit number and hundreds. Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. Estimate the answer to a calculation and use inverse operations to check answers. Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. Count from 0 in multiples of 4, 8, 50 Recall and use multiplication and division tables. Write and calculate mathematical st the multiplication tables they know, digit numbers, using mental and pro- sin which n objects are connected to 							r the 3, 4 and 8 n multiplication ar two-digit numbe ormal written me ms, involving mu ns and correspon	nultiplication Id division using Its times one- thods. Itiplication and Idence problems

						Sprin	g Term					
	1	2	3	4	5	6	7	8	9	10	11	12
	Number: I	Multiplication a	nd Division B	Measure	ment: Length a	nd Perimeter	٦	Number: Fractio	ons	Measur	ement: Mass an	d Capacity
ear 3	 Multiple Related Reasonin Multiply number Multiply number Link mul Divide a number Divide a number Divide a number Divide a number Link mul 	es of 10 calculations ng about multip a 2-digit numbe (no exchange) a 2-digit number (with exchange ltiplication and o 2-digit number (no exchange) 2-digit number (flexible partitio 2-digit number (with remainde ny ways? – mak ations	lication er by 1-digit er by 1-digit) division by a 1-digit by a 1-digit oning) by a 1-digit rs)	 Measure Measure Measure Measure Measure Metres, Equivale Equivale Compar Add leng Subtract What is Measure Calculat 	e in m and cm e in mm e in cm and mm cm and mm ent lengths (m a e lengths t lengths t lengths perimeter? e perimeter e perimeter	nd cm) and mm)	 Understa fractions Compare Understa fractions Understa Compare Fractions Fractions Fractions Count in Equivale Equivale 	and the denom s e and order uni and the numers and the whole e and order nor s and scales s on a number fractions on a ent fractions on ent fractions as	inators of unit t fractions ators of non-unit n-unit fractions line number line a number line bar models	 Use scale Measure Measure Equivale Compare Add and Measure Measure Measure Measure and milli Equivale and milli Compare Add and 	mass in grams mass in kilogram mass in kilogram nt masses (kg an e mass subtract mass capacity and vo capacity and vo litres nt capacities and litres) e capacity and vo subtract capacit	ns and grams d g) lume in mm lume in litres l volumes (litres lume y and volume
				T		National Cur	riculum Links		· · · · ·			· · · · · ·
	 Recall and u for the 3, 4 a Write and ca for multiplication two-digit nu using menta methods. Solve proble problems, in including po corresponde are connecta 	se multiplication and 8 multiplication alculate mathema ation and divisior on tables they kno mbers times one- al and progressing ems, including mis prolving multiplication sitive integer scal ence problems in ed to m objective	and division facts on tables. Itical statements ousing the ow, including for edigit numbers, to formal written asing number ation and division, ing problems and which n objects s	 Measure, c (m/cm/mn (I/mI). Measure th 	ompare, add and	i subtract: lengths olume/capacity imple 2D shapes.	 Recognise an fractions with Compare and with the sam Add and subt denominator example,5/7 Solve probler 	Id show, using dia h small denomina d order unit fract the denominators. tract fractions wi within one who + 1/7 = 6/7]. ms that involve a	agrams, equivalent ators. ions, and fractions th the same le [for Il of the above.	 Measure, co (m/cm/mm (l/ml). 	ompare, add and s); mass (kg/g); vol	ubtract: lengths ume/capacity

							Summ	er Term					
		1	2	3	4	5	6	7	8	9	10	11	12
	1. 2. 3. 4.	Numbe Compa Order f Add fra Subtrac	r: Fractions re fractions. ractions. ctions. t fractions.	Measureme 1. Pounds and 2. Converting pence. 3. Adding mod 4. Subtracting 5. Giving char	ent: Money d pence. pounds and ney. g money. nge	 Months Hours ir Telling t Telling t Telling t AM and 24 hour Finding Compar Start an Measuri 	Measurement: The and years. In a day. The time to 5 minu he time to the mi PM. clock. the duration. the duration. d end times. ing time in second	ne Ites. nute.	Geome1.Turns and2.Right ang3.Compare4.Draw acc5.Horizont:6.Parallel a perpendi7.Recognis 2D shape8.Recognis 3D shape9.Make 3D	etry: Shape d angles. gles in shapes. angles. urrately. al and vertical. nd cular. e and describe es. e and describe es. shapes.	St 1. Pictogra 2. Bar char 3. Tables.	atistics ns. ts.	Consolidation
							National Cur	riculum Links	10.				
leal .	 F C C f t v v v s a 	Recognise diagrams, fractions v denomina Compare a fractions, the same Add and s with the s with the s with in one example,5 Solve prob all of the a	and show, using equivalent vith small tors. and order unit and fractions with denominators. ubtract fractions ame denominator whole [for $\sqrt{7} + 1/7 = 6/7$]. olems that involve above	Add and subtr money to give both £ and p in contexts.	act amounts of change, using n practical	 Tell and wirclock, incluto XII and 2 Estimate a accuracy to Record and seconds, m Use vocabit morning, a Know the morning the number leap year. Compare discloulate the or tasks 	rite the time from a Juding using Roman in 12-hour and 24-hour nd read time with in o the nearest minut d compare time in t ninutes and hours. ulary such as o'clock fternoon, noon and number of seconds er of days in each m durations of events he time taken by pa	n analogue numerals from I r clocks. ncreasing e. erms of k, a.m./p.m., I midnight. in a minute and onth, year and [for example to rticular events	 Recognise a property of description Identify righ that two righalf- turn, tl quarters of complete tuwhether any than or less Identify horn lines and paperpendicul lines. Draw 2-D sh D shapes us materials. Recognise 3 different or describe the 	ngles as a shape or a of a turn. It angles, recognise ht angles, recognise ht angles make a hree make three a turn and four a irrn; identify gles are greater than a right angle. izontal and vertical irs of lar and parallel hapes and make 3- ing modelling -D shapes in ientations and em.	 Interpret an using bar cl and tables. Solve one-s questions [many more fewer?'] us presented i and pictogr 	nd present data narts, pictograms tep and two-step for example, 'How ?' and 'How many ing information n scaled bar charts ams and tables.	

						Autum	n Term					
1		2	3	4	5	6	7	8	9	10	11	12
	Ν	Number: P	Place Value		Numbe	r: Addition and Sul	otraction	Measureme nt: Area	N	umber: Multiplic	ation and Division	A
1. R 2. P 3. N 4. T 5. R 6. P 7. F 9. N 10. E 11. C 12. C 13. R 14. R 15. R 17. R 18. C	epresent num artition numb lumber line to housands epresent num artition numb lexible partitio ind 1, 10, 100 lumber line to stimate on a r ompare numbers oman numera ound to the n ound to the n ound to the n ound to the n count backwa egative num	hbers to 1 pers to 100 hbers to 100 oning of n and 1000 humber lin bers to 10 bers to 1000 humber lin bers to 10000 als hearest 10 hearest 10	000 00 000 000 000 0 more or less ne to 10000 000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ude	 Add and 1000s Add up t exchang Add two Add two Add two Add two Subtract exchang Subtract exchang Subtract than one Efficient Estimate Checking 	subtract 1s, 10s, 1 o two 4-digit number 4-digit numbers – 4-digit numbers – ange two 4-digit number two 4-digit number e two 4-digit number e two 4-digit number subtraction answers strategies	00s, and pers – no one exchange more than ers – no ers – one ers – more	 What is area? Count squares Make shapes Compar e areas 	 Multiple Multiple Multiple 6 times Multiple 9 times The 3, 6 The 3, 6 Multiple 7 times 11 time 12 time 11. Multiple Divide a Multiple 	es of 3 y and divide by 6 table and divisio y and divide by 9 table and divisio and 9 times tab y and divide by 7 table and divisio s table and divisio s table and divisio y by 1 and 0 number by 1 an y three numbers	n facts le n facts on facts on facts d itself	
						National Cur	riculum Links	5				
 Coun Find Reco (thou Orde Ident represent Roun Solve abov Coun 	t in multiples of 1000 more or le gnise the place Isands, hundred r and compare ify, represent a sentations. d any number t number and pl e and with incre t backwards the	f 6, 7, 9. 25 ess than a g value of ea ds, tens and numbers b and estimat to the near ractical pro easingly lar rough zero	5 and 1000. given number. ach digit in a four-d d ones). beyond 1000. te numbers using di rest 10, 100 or 1000 oblems that involve rge positive number o to include negative	igit number ifferent). all of the rs. e numbers.	 Add and suusing the faddition are addition are estimate a answers to Solve addition problems i operations 	btract numbers with ormal written metho nd subtraction where nd use inverse opera a calculation. ion and subtraction n contexts, deciding and methods to use	a up to 4 digits ds of columnar e appropriate. tions to check two step which and why.	 Find the area of rectilinear shapes by counting squares Solve problems involving multiply two-digit numbers by one distributive law to multiply two-distributive law to multiply two-				

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		1	2	3	4	5	6	7	8	9	10	11	12		
		Number: N	Aultiplication an	d Division B	Measurem Pe	ent: Length and rimeter		Number: F	Fractions	1		Number: Decimals			
ar 4	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15.	 Use factor pairs Use factor pairs Multiply by 10 Multiply by 100 Divide by 100 Divide by 100 Related facts – multiplication and division Informal written methods for multiplication Multiply a 2-digit by a 1-digit number Multiply a 3-digit by a 1-digit number Divide a 2 digit by a 1-digit number Divide a 2 digit by a 1-digit number Divide a 3 digit by a 1-digit number Perimeter of regular polygons Perimeter of polygons 					 Under Count Partit Numb Comp Under Conve C	rstand the whole y beyond 1 ion a mixed numb er lines with mixe are and order mix rstand improper f ert mixed number ert improper fract alent fractions on alent fraction fam wo or more fracti ractions and mixe act two fractions act from whole an act from mixed nu	per ed numbers ked numbers ractions s to improper fi ions to mixed n a number line illies ons d numbers nounts umbers	ractions umbers	 Tenths as Tenths as Tenths or Tenths or Tenths or Divide a 1 Divide a 2 Hundredt Hundredt Hundredt Divide 1 c 	fractions decimals a place value chart a number line -digit number by 10 -digit number by 10 hs as fractions hs as decimals hs on a place value r 2 digit numbers	:)) chart		
O		Efficient multiplication 9. Perimeter of					National Cu	rriculum Links							
	•	Use place v multiply an multiplying Recognise a commutativ Multiply tw a one digit layout. Solve probl adding, incl multiply tw integer scal correspond are connect	alue, known and d d divide mentally, by 0 and 1; dividir together three nu and use factor pair vity in mental calcu- to digit and three of number using form ems involving mul uding using the di- o digit numbers by ing problems and ence problems suc- ted to m objects.	lerived facts to including: mbers. s and ulations. ligit numbers by nal written tiplying and stributive law to y one digit, harder ch as n objects	 Measure the perin rectiline (includir centime Convert different measure kilometr 	e and calculate neter of a ar figure g squares) in tres and metres. between : units of [for example, e to metre	 Recognise ar equivalent fr Count up an arise when c tenths by ter Solve proble calculate qua non-unit frac Add and sub 	nd show, using diag ractions. d down in hundred lividing an object by n. ms involving increa antities, and fractio ctions where the ar tract fractions with	rams, families of ths; recognise tha y one hundred an singly harder frac ns to divide quan swer is a whole r the same denom	common at hundredths d dividing ctions to tities, including humber. hinator	 Recognise a number of t Find the eff number by the digits in hundredths Solve simple involving fraplaces. Convert bet [for example] 	nd write decimal equ enths or hundredths. ect of dividing a one o 10 or 100, identifying the answer as ones, t e measure and money actions and decimals t ween different units o e, kilometre to metre	ivalents of any or two digit the value of cenths and o problems o two decimal of measure].		

							Summe	er Term								
	1	L	2	3	4	5	6	7		8	9		10		11	12
	N	lumber	: Decimals	Measurem	ent: Money		Measurement: Tir	ne		Geometr	y: Shape		Statistics	G	eometry: Dire	Position and ction
	 M. W Co Co Or Ro Ha 	 Make a whole. Write decimals. Compare decimals. Order decimals. Round decimals. Halves and quarters 		 Pounds an Ordering a money. Using rour estimate n Four opera 	d pence. mounts of ding to noney. itions	 Hours, r Years, n Analogu Analogu 	ninutes and secor nonths, weeks and ie to digital – 12 h ie to digital – 24 h	nds. I days. our our	1. 2. 3. 4. 5. 6.	Identify an Compare a angles. Triangles. Quadrilate Lines of sy Complete figure.	ngles. and order erals. ymmetry. a symmetric	1. 2. 3. 4.	Interpret charts. Comparison, sum and difference Introducing line graphs. Line graphs.	1. 2. 3. 4.	Describe Draw or Move o Describe movem	e position. n a grid. n a grid. e a ent on a grid.
							National Cur	riculum Links								
Ισαι	 Compare numbers with the same number of decimal places up to two decimal places. Round decimals with one decimal place to the nearest whole number. Recognise and write decimal equivalents to 1/4, 1/2 and 3/4. Find the effect of dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths. 		 Estimate, c calculate d measures, in pounds a Solve simpl money pro fractions an two decimations 	ompare and fferent including money and pence. e measure and blems involving and decimals to al places.	 Read, wr analogue Solve pro hours to to month 	ite and convert time and digital 12- and oblems involving con minutes; minutes to ns; weeks to days.	e between 24-hour clocks. overting from o seconds; years	•	Identify act angles and order angles right angles Compare a geometric s including q and triangle their prope Identify lind in 2-D shap different of Complete a symmetric respect to a symmetry.	ute and obtuse compare and es up to two s by size. and classify shapes, uadrilaterals es, based on rties and sizes. es of symmetry es presented in rientations. es imple figure with a specific line of	•	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables	•	Describe 2- D grid in the fir: Plot spec and draw complete polygon. Describe between translatic unit to th and up/o	positions on a as coordinates st quadrant. ified points <i>i</i> sides to a given movements positions as ons of a given he left/ right down.	

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		1	2	3	4	5		6	7	8	9	10	11	12			
		Nur	mber: Place Val	ue	Number Su	: Addition and btraction	Nu	umber: Mu	ultiplication and	l Division A		Number: F	ractions A				
Ŀ	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14.	Roman nun Numbers to Numbers to Read and w Powers of 1 More or les Partition nu Number lin Compare an 1,000,000 Round to th Round with	nerals to 1000 o 10,000 o 100,000 o 1,000,000 vrite numbers to 10 ss umbers to 1,000 nd order number nd order number ne nearest 10,1 nin 100,000 nin 1,000,000	o 1,000,000 D,000 ers to 100,000 ers to 00,1000	 Menta Add w with 4: Subtra numbe Round Inverse and -) Multi-s proble Compa Find m 	I strategies hole numbers H digits ct whole trs with 4+ digits to check answers e operations (+ tep + and – ms re calculations issing numbers	1. 2. 3. 4. 5. 6. 7. 8. 9. 10	Multiple Commo Factors Commo Prime n Square Cube nu Multiple Divide b	es on multiples on factors numbers numbers y by 10,100 and oy 10, 100 and 1 es of 10, 100 an	d 1000 1000 nd 1000	 Print fractions equivalent to a non-unit fraction Recognise equivalent fractions Convert improper fractions to mixed numbers Convert mixed numbers to improper fractions Compare fractions less than 1 Order fractions less than 1 Compare and order fractions greater than 1 Add and subtract fractions with the same denominator Add fractions within 1 Add fractions with total greater than 1 Add to a mixed number Add two mixed numbers Subtract factions Subtract from a mixed number 						
							National Curriculum Links				17. Subtrac	: two mixed numbe	rs				
Yea	•	 Read, write, order and compare numbers to at least 1000000 and determine the value of each digit. Count forwards or backwards in steps of powers of 10 for any given number up to 1000000. Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers including through zero. Round any number up to 1000000 to the nearest 10, 100, 1000, 10000 and 100000. Solve number problems and practical problems that involve all of the above. Read Roman numerals to 1000 (M) and recognise years written in Roman numerals. 		 + and - n with incu numbers + and - v more that including written n + and -). Use rour answers determin of a prob accuracy Solve + a problem deciding and met 	umbers mentally easingly large yhole numbers with an 4 digits, gusing formal methods (columnar ding to check to calculations and he, in the context olem, levels of and - multi-step s in contexts, which operations hods to use and	 Ider all f fact Knc nun prir Esta and Mu invo Rec nun cub Solv divi fact 	ntify multip factor pairs tors of 2 nu ow and use nbers, prim me) numbe ablish whet d recall prim litiply and d olving decir cognise and mbers, and obed (3). ve problem ision, incluc tors and mu	bles and factors, in of a number, and imbers. the vocabulary on the factors and corrs. ther a number up the numbers up to livide whole numinals by 10, 100 and use square numinals by 10, 100 and the notation for so s involving multip ding using their kr ultiples, squares a	ncluding finding d common of prime mposite (non- o to 100 is prime o 19. bers and those nd 1,000. bers and cube squared (2) and plication and nowledge of and cubes.	 Compare of the san Identify, n represent Recognise from one >1 as a mi Add and s denomina Multiply p supportec Read and 71/100]. including simple rat 	and order fractions we be number. ame and write equiv- ed visually including to mixed numbers and form to the other and xed number [for exar ubtract fractions with tors that are multiple roper fractions and r by materials and dia write decimal numbe Solve problems involve scaling by simple frac- es.	whose denominators alent fractions of a g cenths and hundred improper fractions d write mathematics nple $2/5 + 4/5 = 6/5$ in the same denomin es of the same numb nixed numbers by w grams. Its as fractions [for <i>v</i> ing multiplication a tions and problems	are multiples given fraction, ths. and convert al statements = 11/5]. lator and ber. whole numbers, example 0.71 = nd division, involving				
-5					why.												

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	1	2	3	4	5		6	7	8		9	10		11	12	
	Number	: Multiplication an	d Division B	Number	: Fractions		Number: I	Decimals and per	rcentages	M	easuremer	it: Perimeter and area		Statist	ics	
	 Multiply Multiply Multiply Multiply Multiply Solve pr Short div Divide a Divide w Efficient Solve pr division 	4-digits by 1-digit. 2-digits (area mode 2-digits by 2-digits. 3-digits by 2-digits. 4-digits by 2-digits. oblems with multipli vision 4-digit number by a vith remainders division oblems with multipli	l). cation 1 digit number cation and	 Multiply a an integer Multiply a fraction b Multiply a by an inte Calculate quantity Fraction o Find the w Use fraction 	unit fraction by non-unit y an integer mixed number ger a fraction of a f an amount vhole ons as operators	 Equivalent fractions and decimals Equivalent fractions and decimals (tenths) Equivalent fractions and decimals (hundredths) Equivalent fractions and decimals Thousandths as a fraction Thousandths as decimals Thousandths on a place value chart Order and compare decimals (same number of decimals) Order and compare any decimals with up to 3 decimal places Round to the nearest whole number Round to 1 decimal place Understand percentages Percentages as fractions Percentages as decimals Equivalent fractions, decimals and percentages National Curriculum Links 					Perimeter Perimeter shapes Perimeter Area of re Area of co Estimate a	of rectangles of rectilinear of polygons ctangles impound shapes area	 Read and interpret line graphs Read and interpret tables Two-way tables Read and interpret timetables 			
2						I	National Cu	rriculum Links		1			1			
	 Multiply drawing Multiply two digi method, digit nur Divide n number short div appropr 	and divide numbers upon known facts. numbers up to 4 dig t number using a for including long multi nbers. umbers up to 4 digit using the formal wri <i>i</i> sion and interpret r iately for the context	mentally gits by a one or mal written iplication for 2 s by a one digit tten method of remainders t.	 Multiply pr and mixed whole num by materia Read and v numbers a: example 0. Solve probl multiplication 	oper fractions numbers by ibers, supported ls and diagrams. vrite decimal s fractions [for 71 = 71/100]. lems involving ion and division	•	Read, write, of to 3 DP Recognise & to tenths, hu Round decim nearest whol Solve probler Recognise the understand p hundred', & v with denomin Solve probler equivalents of fractions with 10 or 25.	order & compare r use thousandths a ndredths and decin als with two decin e number and to c ms involving numb e per cent symbol per cent is 'number write percentages nator 100, and as a ms of percentage & of 1/2, 1/4, 1/5, 2/5 n a denominator o	nd relate them mal equivalents. nal places to the one DP er up to 3 DP (%) and of parts per as a fraction a decimal. & decimal 5, 4/5 & those f a multiple of	•	Measure at perimeter of shapes in c Calculate a rectangles including u square cen square met the area of	nd calculate the of composite rectilin entimetres and meti nd compare the area (including squares), sing standard units, timetres (cm2) and cres (m2), and estima irregular shapes	ear res. a of ate	 Solve consum and problems informat in a line a Complet interpret in tables timetable 	mparison, difference s using ion presented graph. e, read and : information including es.	
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	1	L	2	3	4	5		6	7	8	9	10		11		12
			Geometry: Sha	pe	Geometry: Dire	Position and ection		N	umber: Decimals	5	Number: Negative Numbers	Measur	ement: (Units	Converting	Me t:	easuremen : Volume
/ear 5	 Un Cla Est Me Dra Cal Cal Cal Eer Reg 10. 3D 	Classify anglescoEstimate angles2.Praw lines and angles up to 180 degreeswiDraw lines and angles accurately3.Calculate angles on a straight linecoLengths and angles in shapes5.SD shapes6.Regular and irregular polygons6.Result anglesve		 Read ar coordin Problen with co Transla Transla Transla Coordin Lines of Reflecti horizon vertical 	nd plot ates n solving ordinates tion tion with ates symmetry on in tal and lines	 Subtracting decimals within 1. Subtracting decimals within 1. Complements to 1. Adding decimals – across 1 Adding decimals with the same number of decimal places. Subtracting decimals with the same number of decimal places. Subtracting decimals with a different number of decimal places. Subtracting decimals with a different number of decimal places. Subtracting decimals with a different number of decimal places. Subtracting decimals with a different number of decimal places. Adding and subtracting whole and decimals. Decimal sequences. Multiplying decimals by 10, 100 and 1000. 			1. ame number he same erent number different ble and 100 and 0 and 1,000.	 Count forward and backwar ds with positive and negative number s Count through zero Find the differen ce 	 Kilogr Millig Conve Conve imper Conve Conve Calcu 	rams and grams an ert units ert metr rial ert units late with	d kilometres. nd millilitres. s of length ric and s of time h timetables	1. 2. 3. 4.	Cubic centimet res Compare volume Estimate volume Estimate capacity	
							Na	tional Cur	riculum Links							
	 Ide cub Use fac Dis pol and Kno and Tra Ide (to) 	entify 3D boids, fro e the pro cts and fir stinguish lygons ba d angles. ow angle d compar aw given entify: an stal 360°)	shapes, including om 2D representat operties of rectang nd missing lengths between regular ased on reasoning es are measured in re acute, obtuse a angles and measu gles at a point and , angles at a point	cubes and other tions. gles to deduce related s and angles. and irregular about equal sides a degrees: estimate and reflex angles. ure them in degrees. d one whole turn on a straight line and	 Identif and re positic follow or trar the ap langua that th not ch 	y, describe present the on of a shape ing a reflection islation, using propriate ige, and know he shape has anged.	•	Solve problet decimal place Multiply and involving dec Use all four c involving me mass, volum notation, inc	ms involving numl es. divide whole num timals by 10, 100 a operations to solve asure [for examp e, money] using d luding scaling.	ber up to three and 1000. e problems le, length, ecimal	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers including through zero.	 Conve units of examp m; cm and m Under approvident betwe comm as inch Solve conve 	ert betwe of metric ole, km and and mm al]. estand an ximate en een metri hes, pour problems rting betw	een different measure [for nd m; cm and n; g and kg; l nd use quivalences ic units and rial units such nds and pints. s involving ween units of	•	Estimate volume Use all four operation s to solve problems involving measure.

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	1	2	3	4	5	6	7	8	9	10	11	12
	Numb	er: Place Value		Numbe	r: Four Operat	ions		Number: Frac	tions A	Number: Fra	ctions B	Measurement: Converting Units
ear 6	 Nun 1,00 Nun 10,0 Rea num 10,0 Pow Pow Nun 10,0 Corr any Rou Neg 	abers to 0,000 abers to 00,000 d and write abers to 00,000 aber line to 00,000 apare and order integers and any integer ative Numbers	 Add and sub Common fac Common fac Common mu Rules of divis Primes to 10 Square and o Multiply up 5 Solve proble Short division Division usin Introduction Long division Solve proble Solve proble Solve proble Solve proble Solve proble Solve proble Mental calculation Reason from 	tract integers tors iltiples sibility 0 cube numbers to a 4-digit numb ms with multipli n g factors to long division with remainder m with division tep problems trations ilations and estir known facts	er by a 2-digit cation s nation	number		 Equivalent frand simplify Equivalent front a numbe Compare an (denominate Compare an (numerator) Add and sub simple fraction Add and sub two fraction Add mixed r Subtract mix numbers Multi-step p 	ractions ing ractions r line d order or) d order tract ons tract any s tract any s tract any s tract any s tract any s	 Multiply fractions Multiply fractions Divide a fraction integer Divide any fraction fractions Mixed question fractions Fraction of an the whole 	ons by integers ons by in by an tion by an ns with amount amount – find	 Metric measures Convert metric measures Calculate with metric measures Miles and Kilometres Imperial measures
						National Cu	ırriculum Liı	nks				
	 Read, v compa 10,000 the vali Round a requi accuracional contexi interva Solve ne probler the abore 	write, order and re numbers up to .000 and determine ue of each digit. any whole number to red degree of cy. gative numbers in c, and calculate ls across zero. umber and practical ns that involve all of ove.	 Solve addition ar and methods to Multiply multi-di method of long r Divide numbers long division, and rounding as appr Divide numbers division, interpre Perform mental Identify commor Use their knowle operations. Solve problems i 	ad subtraction multi use and why. git number up to 4 d nultiplication. up to 4 digits by a 2-d d interpret remainder opriate for the conte up to 4 digits by a 2-d ting remainders acco calculations, includin factors, common m dge of the order of o nvolving addition, su	step problems in c igits by a 2-digit m ligit whole numbe rs as whole numbe ext. ligit number using ording to the conte g with mixed oper ultiples and prime perations to carry btraction, multipli	ontexts, deciding which umber using the forma r using the formal wri er remainders, fraction the formal written m ext. rations and large numl numbers. r out calculations invol cation and division.	ch operations al written tten method of ns, or by ethod of short bers. lving the four	 Use common factorial simplify fractions common multiple express fractions denomination. Compare and or fractions, includi >1. Add and subtract with different deand mixed number the concept of e fractions 	etors to s; use es to s in the same der ng fractions t fractions enominators pers, using quivalent	 Multiply simple pai fractions, writing the simplest form (e.g. Divide proper fract numbers (e.g. 1/3 = Associate a fraction calculate decimal fin (e.g. 0.375) for a sin 3/8). Identify the value of and multiply and di 10, 100 and 1000 we are up to three deco Multiply 1-digit num 2DP by whole num 	s of proper e answer in its $1/4 \times 1/2 = 1/8$). ons by whole 2 = 1/6). with division to action equivalents hple fraction (e.g. f each digit to 3DP vide numbers by here the answers mal places. hbers with up to heres	Use, read, write & convert between standard units, converting measurements of length, mass, volume & time from a smaller unit of measure to a larger unit, using decimal notation to up to 3 DP Convert between miles & kilometres.

								Sprin	g Term						
		1	2	3	3	4	5	6	7	8	9	10	1	.1	12
		Rati	0		Algeb	ora		Decimals	Fraction	s, decimals and rcentages	Measu perimet	rement: Area, er and volume		Stat	tistics
/ear 6	 Add of Hultiply? Use ratio language Introduce ratio symbol Ratio and fractions Scale drawing Use scale factors Similar shapes Ratio problems Proportion problems Recipes 			 1. 1-st. 2. 2-st. 3. Forr 4. Sub: 5. Forr 6. Forr 7. Solv 8. Solv 9. Find 10. Solv unkt 	ep functio ep functio m expressi stitution mulae m equation /e 1-step e /e 2-step e d pairs of v /e problem nowns	on machines on machines ions equations equations values ns with two	 Place and d Place and d Round Add a decim Multi 1000 Divide 1000 Divide intege Divide Divide Multi 	value within 1 value – integers ecimals d decimals nd subtract als oly by 10, 100 and by 10, 100 and oly decimals by ers e decimals by ers oly and divide	 Decimiequiva Fractional Fractional Under percent Fractional Fractional Fractional Fractional Fractional Fractional Percental Percental	al and fraction lents ns as division stand tages ns to tages lent fractions, als and tages fractions, als and tages tage of an t – one step tage of an t – multi step tages – missing	 Shapes Area of countin Area of triangle Area of Area of Area of Area of Area of Volume Volume 	- same area Id perimeter a triangle – g squares a right-angled any triangle a parallelogram - counting cubes of a cuboid	1. 2. 3. 4. 5. 6.	Line (Dual Read pie cl Pie cl perce Draw The r	graphs bar charts and interpret harts harts with entages pie charts mean
				1			I	National Cu	riculum Lin	<s< th=""><th></th><th></th><th>_</th><th></th><th></th></s<>			_		
	 Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts. Solve problems involving similar shapes where the scale factor is known or can be found. Solve problems involving un 				 Identifi and mu decima Multipl numbe Use wr decima Solve p degree Solve p of mea compa Recall a percen 	the value of each digit litiply numbers by 10, 10 l places. y one-digit numbers wit rs. tten division methods in l places. roblems which require a s of accuracy. roblems involving the ca sures and such as 15% o rison. and use equivalences be cages including in differe	in numbers give 00 and 1,000 giv h up to 2 decima n cases where th inswers to be ro ilculation of per f 360] and the u tween simple fra ent contexts.	a to 3 decimal places ng answers up to 3 I places by whole e answer has up to 2 unded to specified entages [for example e of percentages for ctions, decimals and	 Recogniss same are perimete Recogniss use form volume o Calculate parallelog Calculate compare cuboids u including extending km3). 	e that shapes with the as can have different rs and vice versa. e when it is possible to ulae for area and f shapes. the area of grams and triangles. , estimate and volume of cubes and ising standard units, cm3, m3 and g to other units (mm3,	Illu cir dia an tw Int ch th Ca av	ustrate an rcles, inclu ameter an id know th vice the ra terpret an larts and li ese to solv alculate th rerage.	d name parts of iding radius, id circumference nat the diameter is dius. id construct pie ine graphs and use ve problems. e mean as an		

						Summ	er Term					
	1	2	3	4	5	6	7	8	9	10	11	12
		Geometry: Shap	be	Geometry: Position and Direction								
	 Measure Calculate Verticalle Angles ir Angles ir Angles ir Angles ir Angles ir Circles Draw sha Nets of 5 	e and classify angle e angles y opposite angles n a triangle n a triangle – spec n a triangle – miss n quadrilaterals n polygons apes accurately BD shapes	es ial cases ing angles	 Coordinates in the first quadrant Coordinate in four quadrants Translations Reflections 								
D				1		National Cu	rriculum Lir	iks				1
	 Draw 2-D angles. Compare on their p angles in regular po Recognise are on a s opposite, 	shapes using given and classify geome properties and sizes any triangles, quad olygons. e angles where they traight line, or are w and find missing ar	dimensions and tric shapes based and find unknown rilaterals and meet at a point, vertically ngles.	 Describe positions on the full coordinate grid (all four quadrants) Draw and translate simple shapes on the coordinate plane, and reflect them in the axes. 								

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