

LYTCHETT MATRAVERS PRIMARY SCHOOL

EYFS to Year 6 Long Term Plan

'Mathematics is not about numbers, equations, computation or algorithms; it is about understanding' William Paul Thurston

Intent

At Lytchett Matravers Primary School, we aim to produce confident learners who are able to see and make connections between the different areas of Mathematics. Our children will be able to confidently solve problems, reason mathematically and successfully perform investigations by drawing upon the mathematical experiences and knowledge gained through a rich, broad and exciting mathematics curriculum. Mathematical learning at LMPS will allow children to deepen their understanding and master key concepts. Mathematics is a key life skill which equips our children for their future. We encourage the children to develop these key and fundamental skills through their growing knowledge and understanding of the world.

At LMPS, we aim to achieve mastery through a mastery approach: a set of principles and beliefs. This includes a belief that all pupils are capable of understanding and doing mathematics, given sufficient time. With good teaching, appropriate resources, effort and a 'can do' attitude, all children can achieve in and enjoy mathematics. A mastery curriculum is one set of mathematical concepts and big ideas for all. All pupils need access to these concepts and ideas and to the rich connections between them. Teaching for mastery is a set of pedagogic practices that keep the class working together on the same topic, whilst at the same time addressing the need for all pupils to master the curriculum and for some to gain greater depth of proficiency and understanding. Challenge is provided by going deeper rather than accelerating into new mathematical content.

We achieve this by;

- using active and involving teaching approaches;
- \diamond actively encouraging reflection on learning;
- using rich questioning and discussion;
- taking time over each new concept;
- focusing on using and applying skills in order to extend mathematical knowledge;
- identifying misconceptions as starting places for concept building;
- being responsive to the needs of each pupil and allowing additional time before moving on when required;
- ensuring that children enjoy challenging maths;
- o encouraging pupils to use a range of independent learning strategies.

Ready to Progress Criteria

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/1017683/Maths_guidance_KS_1_and_2.pdf

NCETM PD Materials

Spine 1: Addition and Subtraction www.ncetm.org.uk/media/nbyc314a/ncetm_mm_sp1_overview.pdf

- Spine 2: Multiplication and Division www.ncetm.org.uk/media/5hxifisl/ncetm_spine2_overview.pdf
- Spine 3: Fractions www.ncetm.org.uk/media/q34pxqgt/ncetm_spine3_overview.pdf

NCETM Mastery Materials

www.ncetm.org.uk/teaching-for-mastery/mastery-materials/

White Rose Maths

Primary Scheme of Work www.whiterosemaths.com/resources/primary-resources/primary-sols/

Click the link to access our mathematics curriculum area on the school website:

Lytchett Matravers	Primary School Mathematics Long Term Planning	S West 2021
	EYFS Long Term Planning	*ELGs highlighted in yellow
Number and	A Recognises numerals of personal significance	
Place Value	A Recognises numerals 1-5	
	 Counts up to 3 or 4 objects saying one number names for each item 	
	 Counts actions or objects that cannot be moved 	
	Counts objects to 10 and beyond 10	
	 Counts out up 6 objects from a larger group 	
	 Selects the correct numeral to represent 1-5 and 1-10 objects 	
	 Counts irregular arrangement of up to 10 objects 	
	Estimate how many objects and checks by counting	
	Says the number that is one more than a given number.	
	Records using marks that they can interpret and explain	
	Counts reliably from 1-20	
	Place numbers in order saying 1 more or 1 less than a given number	
Addition and	Uses language such as more or fewer to compare objects	
Subtraction	Finds the total number of items in2 groups by counting all of them	
	Finds one more or one less than a group of up 5 objects then 10 objects.	
	In practical activities and discussion beginning to use the vocabulary involved in adding and subtracting	
	Begins to identify own mathematical problems based on own interests.	
	Using quantities or objects they add or subtract 2 single digit numbers and count on or back to find the answer.	
Fractions	They solve problems including doubling, halving and sharing.	
Measurement	Orders 2 or 3 items by length or height	
	Orders 2 items by weight or capacity	
	Uses everyday language relating to time.	
	Uses everyday language relating to money	
	^D Orders and sequenced familiar events	
	Measure short periods of time in simple ways Estimate a number of chiests and shark supertities by counting on to 20.	
Competer	Estimate a number of objects and check quantities by counting up to 20.	
Geometry	Degining to use the mathematical names for solid SD shapes and nat ZD shapes	
	Can describe the relative position such as behind or post to	
	Uses familiar objects and common shapes to create and recreate patterns and build models	
	They recognise create and describe patterns	
	Explore characteristic of everyday objects and shapes and use mathematical language to describe them	
	- Explore characteristic of everyday objects and shapes and use mathematical language to describe them.	

Mathematics Long Term Planning

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Year 1 Year 1 AUTUMN Term: https://wrm-13b48.kxcdn.com/wp-content/uploads/2020/08/Year-1-Full-Autumn-Term.pdf Week 5 Week 8 Week 1 Week 2 Week 3 Week 4 Week 6 Week 7 Week 9 Week 10 Week 11 Week 12 Number: Place Value (within 10) Number: Addition and Subtraction (within 10) Geometry: Shape Number: Place Value **WRSS: 15 WRSS: 18** WRSS: 5 (within 20) Sort objects Part-whole model **WRSS: 8** Recognise / name 3D Count objects Addition symbol shapes Count forwards and Fact families - addition facts backwards and write Represent objects Sort 3D shapes Count. read and write forwards from any number 0 • Find number bonds for numbers within 10 Recognise and name numbers to 20 in numerals to 10 Systematic methods for number bonds within 10 2-D shapes and words Count, read and write backwards from any number Number bonds to 10 Sort 2-D shapes Numbers from 11 to 20 0 to 10 Compare number bonds Patterns with 3-D and Tens and ones Count one more Addition - adding together 2-D shapes Count 1 more/ 1 less Count one less Addition - adding more Compare groups of • One-to-one correspondence to start to compare **Ready to Progress** obiects Finding a part Subtraction - taking away, how many left? Criteria Compare numbers groups Compare groups using language such as equal. **1G-1:** Recognise Order groups of objects Crossing out more/greater, less/ fewer Introduce and = symbols Subtraction - taking away, how many left? common 2D and 3D Order numbers Compare numbers Introducing the subtraction symbol shapes presented in Order groups of objects Subtraction - finding a part, breaking apart different orientations. Ready to Progress Order numbers Fact families - the 8 facts and know that Criteria CONSOLIDATION Ordinal numbers (1st, 2nd, 3rd ...) 1NPV-1: Count within 100, Subtraction - counting back rectangles, triangles, The number line Subtraction - finding the difference cuboids and pyramids forwards and backwards, Autumn Comparing addition and subtraction statements a + b > are not always similar starting with any number. 1NPV-2: Reason about the **Ready to Progress Criteria** С to one another 1NPV-1: Count within 100, forwards and backwards, Comparing addition and subtraction statements a + b > location of numbers to 20 starting with any number. c + d within the linear number **1NPV-2:** Reason about the location of numbers to 20 system, including within the linear number system, including **Ready to Progress Criteria** comparing using < > and = comparing using < > and = **1NF-1:** Develop fluency in addition and subtraction facts NCETM PD Materials within 10. NCETM PD Materials 1AS-1: Compose numbers to 10 from 2 parts, and Spine 1: Addition and partition numbers to 10 into parts, including recognising Spine 1: Addition and Subtraction Subtraction 1.1 Comparison of quantities/measures odd and even numbers. 1.10 Composition of 1.3 Composition of numbers 1-5 **1AS-2:** Read, write and interpret equations containing numbers 11-19 (TP 1 and 1.4 Composition of numbers 6-10 addition (+), subtraction (-) and equals (=) symbols, and 2) relate additive expressions and equations to real-life contexts. NCETM PD Materials Spine 1: Addition and Subtraction 1.2 'Whole' and 'Parts': part-part-whole **1.5** Introduction to aggregation and partitioning **1.6** Introduction to augmentation and reduction 1.7 Addition and Subtraction: Strategies within 10

Mathematics Long Term Planning

	Year 1													
Yea	'ear 1 SPRING Term: https://wrm-13b48.kxcdn.com/wp-content/uploads/2020/12/Year-1-Full-Sping-Term.pdf													
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12		
Spring	r 1 SPRING T Week 1 Number: A Add by cou Find and m Add by ma Subtractio Subtractio Related fa Compare n 1AS-2: Read containing a (=) symbols, equations to Spine 1: Add 1.10 Compos 1.11 Additio	erm: <u>https://</u> Week 2 Addition and S WRS unting on nake number b king 10 n - not crossing 10 cts umber senten Ready to Prog , write and in dition (+), su and relate ad real-life cont NCETM PD ition and Subtract	wrm-13b48. Week 3 Subtraction (w 5: 7 Sonds g 10 ces ress Criteria terpret equation btraction (-) a ditive expressi exts Materials raction ers 11-19 (TP 5 tion: bridging 1	xxcdn.com/ Week 4 ithin 20) ons nd equals ons and 5) 0 (TP 5	Wp-content/ug Week 5 Number: Includin Numbers to 5 Tens and one Represent nu One more / o Compare obje Compare num Counts in 2s Counts in 2s Counts in 5s Ready 1NPV-1: Count backwards, sta 1NF-2: Count f multiples of 2, beginning with forwards and b numbers.	Place Value (w g counting in 2s WRSS: 9 00 s mbers to 50 one less ects within 50 bers within 50 to Progress Cr within 100, for rting with any n forwards and ba 5 and 10, up to any multiple, a ackwards throug	iteria wards and bumber. ckwards in 0 10 multiples, md count gh the odd	-Sping-Term.pdf Week 8 Measurement Hei WRS Compare length Measure length Ready to Prog 1NPV-2: Reason a location of numbe the linear numbe including compar = 1AS-2: Read, wri equations contair subtraction (-) ar (=) symbols, and expressions and e real-life contexts	Week 9 t: Length and ght S: 2 ns and heights gress Criteria about the ers to 20 within er system, ring using < > and te and interpret ning addition (+), nd equals relate additive equations to Materials	Week 10 Measurement Volu WRS Introduce wei Measure mass Compare mass Compare mass Introduce cap Volume Measure capa Compare capa Ready to Prop NA NCETM PD Spine 1: Additio Subtraction 1.1 Comparison measures	Week 11 :: Weight and ume S: 6 ight and mass s bacity and city acity gress Criteria 0 Materials on and of quantities/	Week 12 CONSOLIDATION		
	Spine 1: Addition and Subtraction 1.10 Composition of numbers 11-19 (TP 5) 1.11 Addition and subtraction: bridging 10 (TP 5 and 6)				NCETM PD Materials Spine 1: Addition and Subtraction 1.9 Composition of numbers: 20-100 Spine 2: Multiplication and Division 2.1 Counting, unitising and coins			real-life contexts NCETM PD Spine 1: Addition <u>1.1</u> Comparison o measures	Materials and Subtraction of quantities/	Subtraction <u>1.1</u> Comparison of quantities/ measures		0		

Mathematics Long Term Planning

	Year 1												
Year 1 SUMMER Term: https://wrm-13b48.kxcdn.com/wp-content/uploads/2021/03/Year-1-Full-Summer-Term.pdf													
	Week 1 Week 2 Week	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12			
	Number: Multiplication and Divisi	n Number	: Fractions	Geometry: Position	Number:	Place Value	Measurement: Money	Measuren	nent: Time				
	WRSS: 8	W	RSS: 2	and Direction	(with	in 100)	WRSS: 3	WR	SS: 6				
	Count in 2s (R)	Find a l	nalf	WRSS: 2	WR	SS: 5	Recognising coins	Before an	d after				
	Count in 5s (R)	Find a d	quarter	Describe turns	Counting f	orwards and	Recognising notes	Dates					
	Count in 10s			Describe position	backwards w	ithin 100	Counting in coins	Time to t	he hour				
	Make equal groups	Ready t	o Progress		Partitionin	g numbers 🛛		Time to t	he half hour				
	Add equal groups	Cr	iteria	Ready to Progress	Comparing n	umbers	Ready to Progress	Writing ti	me				
	Make arrays	NA		Criteria	Ordering n	umbers	Criteria	Comparin	g time				
	Make doubles			1G-2: Compose 2D	One more,	one less	NA			-			
	Make equal groups - grouping	NCETM F	PD Materials	and 3D shapes from				Ready to	Progress	Ó			
er		Spine 3: I	Fractions	smaller shapes to	Ready to	o Progress	NCETM PD Materials	Crit	eria	ATI			
ũ	Ready to Progress Criteria	<u>3.0</u> Guida	ance on the	match an example,	Cri	teria	Spine 2: Multiplication	NA		<u>d</u>			
ur	1NF-2: Count forwards and backwa	ls teaching	of fractions	including	1NPV-1: Coι	ınt within	and Division			Ы			
SI	in multiples of 2, 5 and 10, up to 10	in Key Sta	age 1	manipulating shapes	100, forward	ls and	2.1 Counting, unitising	NCETM PI) Materials	NS			
	multiples, beginning			to place them in	backwards, s	starting with	and coins	NA		8			
				particular	any number		(TP 4-6)			•			
	NCETM PD Materials			orientations									
	Spine 1: Addition and Subtraction				NCETM P	D Materials							
	<u>1.8</u> Composition of numbers: multip	es		NCETM PD Materials	NA								
	of 10 up to 100 (TP 2)			NA									
	Spine 2: Multiplication and Division												
	$\frac{2.1}{77}$ Counting, unitising and coins												
	(121-3)												

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Year 2 AUTUMN Term: https://wrm-13b48 kxcdn.com/wp-content/uploads/2020/08/Year-2-Full-Autumn-Term- pdf

	Week 1 Numl	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
	Numl	ber: Place Va	مىرار		NI 1							
			liuc		Number: /	Addition and Sub	traction		Measurem	ent: Money	Num	ber:
		WRSS: 10				WRSS: 16			WRS	S: 10	Multiplic	ation and
	Counting for a counting for a counting for a counting for a counterpreter a counting for a co	prwards and b	ackwards	Fact families	 addition and su 	btraction bonds	to 20		Recognising coir	ns and notes (R)	Divi	sion
	within 20 (R)			Check calcula	tions				Count money - p	bence	WRS	S: 5
ſ	Tens and or	nes within 20	(R)	Compare num	ber sentences				Count money - p	oounds	Make equ	al groups
ſ	Counting for a counting for a counting for a counting for a counterpart of the counting for a	prwards and b	ackwards	Related facts					(notes/coins)		(R)	
7	within 50 (R)			Bonds to 100	(tens)				Count money - r	notes and coins	Add equa	l groups (R)
ſ	Tens and or	nes within 50	(R)	Add and subt	ract 1s				Select money		Make arrays (R)	
1	Compare n	umbers withir	n 50 (R)	ID more and	10 less				Make the same a	amount	Multiplication	
ſ	Count obje	cts to 100 and	d read and	Add and subt	ract 10s				Compare money	1	sentences u	ising the X
,	write numbe	rs in numerals	s and	Add by makin	g 10 (R)				Find the total		symbol	
	words			Add a 2-digit	and 1-digit numl	per - crossing ten			Find the differe	nce	Multiplica	tion
ľ	Represent i	numbers to 10	00	Subtraction -	crossing 10 (R)				Find change		sentences f	rom
1	Tens and or	nes with a pa	rt-whole	Subtract a 1-0	digit number fro	n a 2-digit numb	er - crossing te	en	Two-step proble	ems	pictures	ł
1	model			Add two 2-dig	git numbers - not	crossing ten - ac	ld ones and ad	ld tens				ł
1	Tens and or	nes using add	ition	Add two 2-dig	git numbers - cro	ssing ten - add o	nes and add te	ens	Ready to Pro	gress Criteria	Ready to	Progress
1	Use a place	value chart		Subtract a 2-0	digit number fro	n a 2-digit numb	er - not crossir	ng ten	2NPV-2: Reason a	bout the location	Crit	eria
1	Compare ol	bjects		□ Subtract a 2-0	digit number fro	n a 2-digit numb	er - crossing te	en - subtract	of any two- digit i	number in the	2MD-1: Recognise	
,	Compare n	umbers		ones and tens					linear number sys	tem, including	repeated addition	
,	Order object	cts and numb	ers	Find and mak	e number bonds	(R)			identifying the pr	evious and next	contexts, re	epresenting
	Count in 2s	(R)		Bonds to 100	(tens and ones)				multiple of 10		them with	
un l	Count in 5s	(R)		Add three 1-c	ligit numbers			ZAS-1: Add and su	ubtract across 10	multiplicati	on	
' (t	Count in 10	Js (R)						ZAS-2: Recognise	equations a	nd		
	Count in Zs				Ready	to Progress Crit	eria		structure of diffe	structure of 'difference' and		
	Deeder			ZNPV-Z: Reaso	n about the loca	tion of any two- o	aigit number ii	n the linear	answer questions	of the form,	product, wi	thin the Z,
		o Progress Cr	riteria	number system	, including ident	ifying the previou	us and next mu	attiple of 10	How many more.		5 and 10	an tablaa
	ZNPV-1: Rec	in two digit r	ace value	2AS-1: Add and 2AS-2: Add and	subtract across	10 hy applying	rolated one di	ait addition	ZAS-3: Add and su	ubtract within 100	multiplicati	on tables
	or each uigit	and decomp	iumbers,	2A3-3. Add and	factor add and	The by applying	related one-di	git addition	by applying relate	raction factor add		Matorials
	digit number	and decompo	use two-	digit number	Tacts, aut and	SUDLIACE ONLY ONE	s of only tens		addition and subtract only	action facts, aud		Materials
	non standar	d partitioning		2AS - A • Add and	subtract within	100 by applying	rolated one di	ait addition	to/from a two di	git number	Multiplicati	on and
	2NDV-2. Pos	son about the	location	and subtraction	facts: add and	subtract any 2 tw	o- digit numb	git addition	2 AS - A : Add and si	ibtract within 100	Division	Jiranu
	of any two-	ligit number i	in the	and subtraction		FTM PD Matorial		513	by applying relate		2 2 Structu	ros:
	linear numbe	ar system incl	luding	Spine 1. Additio	on and Subtractio		3		addition and subt	raction facts add	multiplicati	cs.
	identifying th	ne previous ar	nd next	1 2 'Whole' and	1 'Parts' nart-n	art-whole			and subtract any	7 two- digit	representin	a equal
	multiple of 1		Id Hext	1.7 Addition an	d Subtraction S	trategies within 1	0		numbers		groups (TP1	
		0		1.8 Composition	of numbers: m	ultiples of 10 up	to 100		numbers		2 3 Times t) ables (2s)
	NCF	TM PD Materi	als	1.9 Composition	nosition of numbers: 20-100 (TP 6)							ables (5s/
	Spine 1: Addi	ition and Subt	traction	1.11 Addition and subtraction: bridging 10 Spine 2: Multiplication and Division					ation and Division	on $10s$)		
	1.9 Composit	ion of numbe	ers: 20-100	1.13 Addition a	1.13 Addition and subtraction: two-digit and single-digit numbers					tising and coins	2.5 Doublin	g and
	(Revisit Y1 P	lace Value to	100)	1.14 Addition and subtraction: two-digit numbers and multiples of 10					(TP 4-6)		halving	5 4112
	Spine 2: Mult	iplication and	Division	1.16 Subtraction: two-digit and two-digit numbers					(
	2.1 Counting	, unitising and	d coins	Spine 2: Multin	ication and Divi	sion	-					
	(Count in 2s.	5s, 10s)		2.1 Counting, unitising and coins (TP 2)								

					Year 2		-							
Yea	r 2 SPRING Term: https://week.1	//wrm-13b48.kxcc	In.com/wp-co	ntent/uploads/2	2020/12/Year-2-F	-ull-Spr	ring-Ter	<u>m.pdf</u>	ok 8 W	ook 9	Wook 10	W	look 11	Week 12
Spring	Week 1 Week Number: Multiplication of numt 10 Use arrays Make doubles (R) 2 times-table 5 times-table 10 times-table 10 times-table Divide by 2 Odd and even numbers Divide by 5 Divide by 5 Divide by 10 Ready to 2MD-1: Recognise repeat them with multiplication product, within the 2, 5 2MD-2: Relate grouping groups is unknown to multiplication missing factor, and to di NCET Spine 1: Addition and Sultiplication of numt 1.10 Composition of numt 2.6 Structures and quotifit 2 SUMMER Term: https	2 Week 3 tiplication and Divi WRSS: 11 equal groups - sharin R) D Progress Criteria red addition context equations and calculation and 10 multiplication problems where the ltiplication equations (quar- M PD Materials Diraction ers 6-10 (TP 3) bers: 11-19 ad Division rive and partitive div r//wrm-13b48.kx	Week 4 sion ng (R) • Make s, representing ulating the n tables number of is with a otitive division) <u>vision (TP 1-4)</u> cdn.com/wp-c	Week 5 Week 5 Make tally ch Draw pictogr Interpret pict Draw pictogr Interpret pict Block diagrar Ready to 2MD-1: Recogr contexts, repre multiplication calculating the 2, 5 and 10 mu 2NPV-2: Reaso of any two- dig linear number identifying the multiple of 10 NCETM Spine 1: Additi 1.12 Subtraction	Week 6 Statistics WRSS: 6 marts ams (1-1) tograms (1-1) ams (2, 5 and 10) tograms (2	10) tion he on 2-Full-S	Week Geo Geo Count Count Draw Lines Sort 2 Make Count Count Count Count Sort 3 Make Make Summe	7 We metry: Pro WRS nise 2D and sides on 2D vertices on 2D shapes of symmetry D shapes oatterns wit faces on 3d edges on 3D vertices on D shapes oatterns wit Ready to Pro se precise la perties of 2D e shapes by re- ties and diffe	ek 8 W perties of Shapes 3D shapes 3D shapes 2D shapes 2D shapes 3D shapes and 3D shapes erences in propose D Materials	a ape scribe es, and ut operties	Week 10 Frace WRS Make equal Recognise a Find a half Recognise a Find a quar Recognise a Find a quar Recognise a Find a third Unit fractio Non-unit fr Equivalence 2/4 Find three Count in fr Ready to Cri NA NCETM PI Spine 3: Frace 3.0 Guidance teaching of f Key Stage 1	We tions SS: 12 I parts a half a quar ter a third ons ractior e of 1 quart action o Prog teria	rter d rter d /2 and ers gress gress eerials he ons in	
Tea	Week 1	Wee	k 2	Week 3	Week 4	Wee	ek 5	Week 6	Week 7	Weel	k 8 Week	9	10 11	12
Summer	Measuremen Compare lengths and h Measure lengths (R) Measure length (Cm) Measure length (Cm) Compare lengths Order lengths Four operations with le NCETA Spine 1: Addition and Su <u>1.1</u> Comparison of quant	t: Length and Heig WRSS: 7 eights (R) ngths MPD Materials otraction ities/measures	nt	Measuren WR Telling time to O'clock and ha Quarter past a Telling time to Writing time (f Hours and days Find durations Compare durat	hent: Time SS: 9 the hour (R) the half hour (R) lf past nd quarter to 5 minutes R) of time cions of time	Geo Geo Intr Mea Con Mea Intr Mea Con Con Mill Litr Ten	roduce w asure ma asure ma asure ma asure ma roduce c asure ca npare vo lilitres res nperatu	Position and WRSS: 2 veight and m ass (R) ass ass in grams ass in kilogra apacity and pacity (R) plume	(g) (g) (work (kg) (kg) volume (R)	Geon an Constant Constant	netry: Position ad Direction WRSS: 5 ribe position (R ribe movement ribe turns ribe movement rns ng patterns wit	2) () () ()	Problem Solving	CONSOLIDATION

Year 3 Year 3 AUTUMN Term: https://wrm-13b48.kxcdn.com/wp-content/uploads/2020/08/Year-3-Full-Autumn-Term-.pdf Week 1 Week 2 Week 3 Week 4 Week 5 Week 6 Week 7 Week 8 Week 9 Week 10 Week 11 Week 12 Number: Place Value Number: Addition and Subtraction Number: Multiplication and Division **WRSS: 10 WRSS: 20 WRSS: 19** Represent numbers to 100 (R) Add and subtract multiples of 100 Multiplication - equal groups Tens and ones using addition (R) Add and subtract 1s (R) Multiplication using the symbol (R) Hundreds Add and subtract 3-digit and 1-digit numbers - not crossing 10 Using arrays (R) Add a 2-digit and 1-digit number - crossing 10 (R) Represent numbers to 1,000 2 times-table (R) - Add 3-digit and 1-digit numbers - crossing 10 □ 100s, 10s and 1s □ 5 times-table (R) Subtract a 1-digit number from 2-digits - crossing 10 (R) Make equal groups - sharing (R) Number line to 1.000 □ Find 1, 10, 100 more or less than a given Subtract a 1-digit number from a 3-digit number - crossing 10 Make equal groups - grouping (R) number Add and subtract 3-digit and 2-digit numbers - not crossing 100 Divide by 2 (R) Compare objects to 1,000 Add 3-digit and 2-digit numbers - crossing 100 Divide by 5 (R) Compare numbers to 1.000 • Subtract a 2-digit number from a 3-digit number - crossing 100 Divide by 10 (R) • Order numbers Count in 50s Add and subtract 100s Multiply by 3 Spot the pattern - making it explicit Divide by 3 Add two 2-digit numbers - crossing 10 - add ones & add tens (R) The 3 times table Ready to Progress Criteria Subtract a 2-digit number from a 2-digit number - crossing 10 (R) **3NPV-1**: Know that 10 tens are equivalent Multiply by 4 • Add and subtract a 2-digit and 3-digit numbers - not crossing 10 or 100 CONSOLIDATION Divide by 4 to 1 hundred, and that 100 is 10 times the Add a 2-digit and 3-digit numbers - crossing 10 or 100 The 4 times table size of 10; apply this to identify and work Autumn • Subtract a 2-digit number from a 3-digit number - crossing 10 or 100 Multiply by 8 out how many 10s there are in other three-Add two 3-digit numbers - not crossing 10 or 100 Divide by 8 digit multiples of 10 Add two 3-digit numbers - crossing 10 or 100 The 8 times table 3NPV-2: Recognise the place value of each • Subtract a 3-digit number from a 3-digit number - no exchange digit in three-digit numbers, and compose • Subtract a 3-digit number from a 3-digit number - exchange and decompose three-digit numbers using Ready to Progress Criteria **3MD-1**: Apply known multiplication and standard and non-standard partitioning Ready to Progress Criteria division facts to solve contextual problems 3NPV-3: Reason about the location of any **3AS-2**: Add and subtract up to three-digit numbers using columnar with different structures, including three- digit number in the linear number methods quotitive and partitive division system, including identifying the previous and next multiple of 100 and 10 **3AS-3**: Manipulate the additive relationship: Understand the inverse relationship between addition and subtraction, and how both relate to NCETM PD **3NPV-4:** Divide 100 into 2, 4, 5 and 10 the part-part-whole structure. Understand and use the commutative Spine 2: Multiplication and Division equal parts, and read scales/number lines 2.6 Structures and guotitive and partitive property of addition, and understand the related property for subtraction marked in multiples of 100 with 2, 4, 5 and division 10 equal parts. NCETM PD 2.7 Times tables: 2, 4 and 8, and the Spine 1: Addition and Subtraction relationship between them (TP 2-4) NCETM PD 1.17 Composition and calculation: 100 and bridging 100 (TP 3-4) 2.8 Times tables: 3, 6 and 9, and the Spine 1: Addition and Subtraction 1.18 Composition and calculation: three-digit numbers (TP 5) relationship between them (TP 1) 1.17 Composition and calculation: 100 and bridging 100 (TP 1) 1.20 Algorithms: column addition 1.21 Algorithms: column subtraction 1.18 Composition and calculation: threedigit numbers (TP 2-4)

Mathematics Long Term Planning

Voar	۲ear 3 Year 3 SPRING Term: <u>https://wrm-13b48.kxcdn.com/wp-content/uploads/2020/08/Year-6-Full-Autumn-Term.pdf</u>											
Tear	Week 1	Week 2	Week 3	Week 4	Week 5 Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	
SPRING	Num Consolidatio (R) Comparing Related cal Multiply 2-ci Divide 2-dig Scaling How many Keady 3MD-1: Apply division facts problems witi including quo division Spine 2: Multipl 2.6 Structure partitive divis 2.8 Times tab relationship b 2.13 Calculat dividing by 10 2.14 Multiplic leading to sho 2.15 Division: short division 2.17 Structur comparison to 5) 2.19 Calculat by whole num	ber: Place Val WRSS: 7 on 2, 4 and 8 ti statements culations ligits by 1-digit ways? to Progress Cri h known multipl to solve contex h different strut titive and partit NCETM PD blication and Divis s and quotitive sion (TP 4) bles: 3, 6 and 9 between them (ion: multiplying 0 or 100 (TP 6) sation: partition ort multiplication partitioning le (TP 1) es: using measu o understand sc ion: x/÷ decimants bers	teria ication and ctual ctures, tive sion and , and the TP 5) g and ning on (TP 1-2) ading to ures and aling (TP al fractions	Measurement WRSS: 7 - Count money (pence) (R) - Count money (pounds) (R) - Pounds and pence - Convert pounds and pence - Add money - Subtract money - Give change Ready to Progress Criteria NPV-2: Recognise the place value of each digit in 3-digit numbers, and compose and decompose 3-digit numbers and non- standard partitioning 3AS-2: Add and subtract up to three-digit numbers using columnar methods NCETM PD Spine 1: Addition and Subtraction 1.25 Addition and subtraction: money Spine 2: Multiplication and Division 2.1 Counting, unitising and coins	Statistics WRSS: 6 - Make tally charts (R) - Draw pictograms (2, 5 and 10) (R) - Interpret pictograms (2, 5 and 10) (R) - Pictograms - Bar Charts - Tables Ready to Progress Criteria NA NCETM PD NA	Measurem Measure le Measure le Equivalent Equivalent Compare l Add lengtl Subtract le Measure p Calculate Read 3NPV-2: Read 3NPV-2: Read aNPV-2: Read aNPV-2: Read aNPV-2: Read aNPV-3: Read AS-2: Add digit number Subtract le Read SNPV-2: Read Compose an numbers usi standard pa SNPV-3: Read AS-2: Add digit number Spine 2: Mult 2.16 Multipl perimeter (1)	ent: Length and WRSS: 9 ength ength (m) (R) clengths (m and clengths (m and clengths (mm ar engths (R) hs engths erimeter perimeter by to Progress Cr cognise the place on three-digit num d decompose the ng standard and rtitioning and subtract up rs using columna ason about the la ligit number in t em, including id d next multiple of NCETM PD iplication and Divi ication contexts 1) (TP 1 to introd	d Perimeter (cm) (nd cm) (riteria e value of nbers, and ree-digit non- to three- ar methods ocation of he linear lentifying the of 100 and 10 (ision : area and duce)	Number: WRS Make equal par Recognise a hal Find a half (R) Recognise a qua Find a quarter (R) Recognise a thi Find a third (R) Unit factions (R Non-unit fractions (Ready to Pro 3NF-1: Secure flu and subtraction fractions fractions to represe parts of a whole field equal parts. 3F-2: Find unit fr quantities using k facts (multiplicat fluency). 3F-3: Reason abo any fraction with number system NCE Spine 3: Fractions representing and 3.6 Multiplying w fractions (TP 3 Fr amounts)	Fractions S: 11 ts (R) f (R) arter (R) R) rd (R)) ons (R) 1/2 and 2/4 (R) ons (R) t covered in the at time can be spent content from Y2 ogress Criteria Jency in addition acts that bridge nued practice. nd write proper ssent 1 or several that is divided into actions of nown division ion tables but the location of in 1 in the linear TM PD S fractions: the onship :: identifying, comparing hole numbers and fractions of	CONSOLIDATION	

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Year 3 Year 3 SUMMER Term: https://wrm-13b48.kxcdn.com/wp-content/uploads/2021/03/Year-3-Full-Summer-Term.pdf Week 6 Week 1 Week 2 Week 3 Week 4 Week 5 Week 7 Week 8 Week 9 Week 10 Week 11 Week 12 Number: Fractions Measurement: Time Geometry: Properties Measurement: Mass and Capacity **WRSS: 9** WRSS: 11 WRSS: 12 of Shapes O'clock and half past (R) WRSS: 9 Compare mass (R) • Making the whole • Tenths Quarter past and quarter to (R) Measure mass Turns and angles Count in tenths Months and vears Rights angles in Compare mass Tenths as decimals Hours in a day shapes Add and subtract mass Fractions on a number line Telling the time to 5 minutes Compare angles Compare volume (R) • Fractions of a set of objects • Telling the time to the minute Draw accurately Measure capacity Equivalent fractions Using a.m. and p.m. Horizontal and Compare capacity Compare fractions 24-hour clock vertical Add and subtract capacity Order fractions Finding the duration Parallel and Temperature (R) Add fractions Comparing durations perpendicular Subtract fractions Recognise and Ready to Progress Criteria Start and end times describe 2D shapes NA Measuring time in seconds Ready to Progress Criteria Recognise and 3F-1: Interpret and write proper fractions to represent NCETM PD Ready to Progress Criteria describe 3D shapes NA 1 or several parts of a whole that is divided into equal Make 3D shapes NA SUMMER parts **3F-2:** Find unit fractions of quantities using known NCETM PD Ready to Progress division facts (multiplication tables fluency) NA Criteria 3F-3: Reason about the location of any fraction within 1 **3G-1**: Recognise right in the linear number system angles as a property 3F-4: Add and subtract fractions with the same of shape or a denominator, within 1 description of a turn, and identify right NCETM PD angles in 2D shapes presented in different Spine 3: Fractions 3.3 Non unit fractions: identifying, representing and orientations. **3G-2:** Draw polygons comparing 3.4 Adding and subtracting within one whole by joining marked 3.7 Finding equivalent fractions and simplifying points, and identify fractions (TP 1-2) parallel and perpendicular sides NCETM PD NA

Year 4 Year 4 AUTUMN Term: https://wrm-13b48.kxcdn.com/wp-content/uploads/2020/08/Year-4-Full-Autumn-Term-.pdf Week 1 Week 2 Week 3 Week 4 Week 5 Week 6 Week 7 Week 8 Week 9 Week 10 Week 11 Week 12 Number: Place Value Number: Addition and Subtraction Number: Multiplication and Division Measurement: Length and WRSS: 16 **WRSS: 14** Perimeter **WRSS: 14** Represent numbers to 1,000 (R) Add and subtract 1s, 10s, 100s and **WRSS: 9** Multiply by 10 □ 100s, 10s and 1s (R) 1.000s Equivalent lengths - m Multiply by 100 Number line to 1,000 (R) Add two 3-digit numbers - not crossing 10 and cm (R) Divide by 10 Round to the nearest 10 Equivalent lengths - mm Divide by 100 or 100 (R) Round to the nearest 100 Add two 4-digit numbers - no exchange and cm (R) Multiply by 1 and 0 □ Count in 1.000s Add two 3-digit numbers - crossing 10 or Kilometres Divide by 1 and itself □ 1,000s, 100s, 10s and 1s 100 (R) Add lengths (R) Multiply and divide by 3 (R) Partitioning Add two 4-digit numbers - one exchange Subtract lengths (R) The 3 times-table (R) Add two 4-digit numbers - more than one Number line to 10,000 Measure perimeter (R) Multiply and divide by 6 □ Find 1, 10, 100 more or less (R) Perimeter on a grid • 6 times table and division facts exchange Compare numbers Subtract a 3-digit number from a 3-digit Perimeter of a rectangle Multiply and divide by 9 number - no exchange (R) Order numbers Perimeter of rectilinear 9 times table and division facts Subtract two 4-digit numbers - no Multiply and divide by 7 Round to the nearest 1,000 shapes □ Count in 25s exchange • 7 times table and division facts Negative numbers Subtract a 3-digit number from a 3-digit Ready to Progress Criteria Roman numerals to 100 number - exchange (R) **4G-1**: Draw polygons, **Ready to Progress Criteria** Subtract two 4-digit numbers - one specified by coordinates in **4NF-1**: Recall multiplication and division the first guadrant, and facts up to 12x12 and recognise products in **Ready to Progress Criteria** exchange Autumn 4NPV-1: Know that 10 hundreds are equivalent to 1 Subtract two 4-digit numbers - more than translate within the first multiplication tables as multiples of the thousand, and that 1,000 is 10 times the size of 100; apply one exchange corresponding number. quadrant this to identify and work out how many 100s there are in **4MD-1**: Multiply and divide whole numbers Efficient subtraction other four-digit multiples of 100. by 10 and 100 (keeping to whole number Estimate answers NCETM PD Materials 4NPV-2: Recognise the place value of each digit in four-Checking strategies Spine 2: Multiplication and quotients); understand this as equivalent digit numbers, and compose and decompose four-digit Division to making a number 10 or 100 times the numbers using standard and non-standard partitioning. Ready to Progress Criteria 2.16 Multiplication contexts: size. **4NPV-3**: Reason about the location of any four- digit NA area and perimeter (1) 4MD-2: Manipulate multiplication and number in the linear number system, including identifying division equations, and understand and the previous and next multiple of 1,000 and 100, and NCETM PD Materials apply the commutative property of Spine 1: Addition and Subtraction rounding to the nearest of each multiplication. 1.20 Algorithms: column addition 1.21 Algorithms: column subtraction NCETM PD Materials **NCETM PD Materials** Spine 1: Addition and Subtraction 1.22 Composition and calculation: 1000 Spine 2: Multiplication and Division 1.17 Composition and calculation: 100 and bridging 100 and four-digit numbers (TP 3) **2.6** Structures and guotitive and partitive 1.22 Composition and calculation: 1,000 and four-digit division (TP 5) numbers 2.8 Times tables: 3, 6 and 9, and the 1.27 Negative numbers: counting, comparing and relationship between them 2.9 Times tables: 7 and patterns calculating within/across times tables 2.13 Calculation: multiplying and dividing by 10 or 100

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					ľ	ear 4						
Yea	ar 4 SPRING Te	rm: <u>https://wr</u> i	<u>m-13b48.kxcd</u>	n.com/wp-content/u	uploads/2020/1	<u>L2/Year-4-Ful</u>	I-Spring-Term	<u>.pdf</u>				
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
	Number: N	Aultiplication an	d Division	Measurement:		Number: F	ractions		N	umber: Decim	als	
		WRSS: 10		Area		WRSS	: 15			WRSS: 15		
	I = 11 and 12 ti	nes-table		WRSS: 4	• Unit and non	-unit fractions	(R)		Recognise	tenths and hu	ndredths	
	Multiply 3 ni	umbers		What is area?	What is a fra	ction?			Tenths as	decimals		
	Factor pairs			Counting squares	Tenths (R)				Tenths on	a place value	grid	
	Efficient mu	ltiplication		Making shapes	Count in tent	ths (R)			Tenths on	a number line		
	Written met	hods		Comparing area	Equivalent fr	actions (R)			Divide 1-d			
	Multiply 2-d	gits by 1-digit (F	R)		Fractions gre	ater than 1			Divide 2-d	igits by 10		
	Multiply 2-di	gits by 1-digit		Ready to Progress	Count in frac	tions - Add fra	ctions (R)	Hundredtr	1S			
	Divide 2-dig	ts by 1-digit (R)		Criteria	Add 2 or mor	Hundredth	is as decimals					
	Divide 3-digi	ts by 1-digit		NA	Subtract 2 fr	actions			- Hundredth	is on a place v	alue grid	
	Corresponde	nce problems			Subtract from	n whole amour	its		Divide 1 o	r Z-digits by 10	00	
				NCEIM PD	Fractions of a	a set of object	s (R)				. ., .	
	Read	to Progress Cr	iteria	NA	Calculate fra	ctions of a qua	intity	Ready to Progress Criteria			7	
	4NF-1: Recall	multiplication a	nd division		Problem solv	ing - calculate	quantities		NA			õ
G	facts up to 12	kiz and recognis	e products in			Deads to Deas						AT
₩	multiplication	tables as multip	les of the			Ready to Prog	ress Criteria	unah awa in	Contras de Arde	NCEIM PD		
P P	corresponding	numper.	ion and		4F-1: Reason a	bor system	ion of mixed n	umbers in	Spine 1: Add	siting and subt		SOI
0.	division equat	ions and unders	tand and		de linear num	mixed number	s to impropor f	ractions and	tonths	sitility and calc	ulation.	NC
	apply the com	mutative proper	ty of		vice versa		s to improper i	ractions and	1 24 Compo	sition and calc	ulation:	Ŭ
	multiplication	inutative proper	Ly OI		4F-3. Add and	subtract impre	oper and mixed	fractions	hundredths	and thousandt	he	
	4MD-3. Under	stand and apply	the		with the same	denominator	including bridg	ing whole	*Mainly TP	and thousandt	TD 2	
	distributive pr	operty of multin	lication		numbers	denominator,	including bridg	ing whole	manney rr	und some oj	11 2	
	distributive pr	operty of mattip			numbers				Spine 2: Mul	tiplication and	Division	
	NO	FTM PD Materia	als			NCET	A PD		2,13 Calcula	ation: multiply	ing and	
	Spine 2: Multi	plication and Div	ision		Spine 3: Frac	tions			dividing by	10 or 100		
	2.10 Connecti	ve multiplication	and division.		3 0 Guidance c	on the teaching	of fractions in	Kev Stage 1	a			
	and the distributive law				3.4 Adding and	l subtracting w	ithin one whole					
	2.11 Times tables: 11 and 12				(TP 1-2)							
	2.14 Multiplication: partitioning leading to				3.5 Working across one whole: improper fractions and							
	short multiplication				mixed numbers							
	2.15 Division: partitioning leading to short				3.7 Finding equivalent fractions and simplifying							
	division				fractions							

Mathematics Long Term Planning

Year 4											
Year 4 SUMMER Term: https://wrm-13b48.kxcdn.com/wp-content/uploads/2021/03/Year-4-Full-Summer-Term.pdf											
	Week 1 Week 2	Week 3 Week 4	Week 5 Week 6	Week 7	Week 8 Week 9	Week 10 Week 11	Week 12				
	Number: Decimals	Measurement: Money	Measurement: Time	Statistics	Geometry: Properties of	Geometry: Position					
	WRSS: 7	WRSS: 8	WRSS: 8	WRSS: 15	Shapes	and Direction					
	Bonds to 10 and 100 (R)	Pounds and pence	• Telling the time to 5	Interpret charts	WRSS: 11	WRSS: 4					
	Make a whole	Ordering money	minutes (R)	Comparison,	Turns and angles (R)	Describe position					
	Write decimals	Estimating money	• Telling the time to the	sum and	Right angles in shapes (R)	Draw on a grid					
	Compare decimals	Convert pounds and	minute (R)	difference	Compare angles (R)	Move on a grid					
	Order decimals	pence (R)	Using a.m. and p.m. (R)	Introducing line	Identify angles	Describe movement					
	Round decimals	Add money (R)	24-hour clock (R)	graphs	Compare and order angles	on a grid					
	Halves and quarters	Subtract money (R)	Hours, minutes and seconds	Line graphs	Recognise and describe 2-D						
		Find change (R)	[•] Years, months, weeks and		shapes (R)	Ready to Progress					
	Ready to Progress Criteria	Four operations	days	Ready to	Iriangles	Criteria					
	NA	Desidents Designed	Analogue to digital (12 hour Analogue to digital (24 hour)	Progress Criteria	Quadrilaterals	4G-1: Draw polygons,					
		Ready to Progress	Analogue to digital (24 nour	4NPV-4: Divide	Horizontal and Vertical (R)	specified by					
	NCEIM PD	Criteria	Deeds to Dreamon Criteria	1,000 into 2, 4, 5	Lines of symmetry	coordinates in the first					
	Spine 1: Addition and	NA	Ready to Progress Criteria	and TU equal	^L Complete a symmetric	quadrant, and	z				
~	1 24 Composition and		NA	parts, and read	ngure	first guadrant	0L				
Ē	<u>1.24</u> Composition and	NCEIMPD Spine 1: Addition and		linos markod in	Poady to Progress Critoria		TAG				
₹	thousandths (TP 2 and 7)	Subtraction		multiples of 1 000	4G-2: Identify regular		L CLC				
In:		1 22 Composition and	NA	with 2 4 5 and	nolygons including	Spine 1: Addition and	SO				
0,		calculation: 1000 and		10 equal parts	equilateral triangles and	Subtraction	NO				
		four-digit numbers (TP		ro equat parts	squares, as those in which the	1.27 Negative	U				
		4)		NCETM PD	side-lengths are equal and the	numbers: counting.					
		1.25 Addition and		NA	angles are equal. Find the	comparing and					
		subtraction: money			perimeter of regular and	calculating (TP 6)					
					irregular polygons.	······································					
					4G-3: Identify line symmetry						
					in 2D shapes presented in						
					different orientations. Reflect						
					shapes in a line of symmetry						
					and complete a symmetric						
					figure or pattern with respect						
					to a specified line of						
					symmetry.						
					NCETM PD						
					NA						

Mathematics Long Term Planning

Lytche	ytchett Matravers Primary School Mathematics Long Term Planning									ç	West 2021	
							Year 5					
Year	'ear 5 SPRING Term: https://wrm-13b48.kxcdn.com/wp-content/uploads/2020/12/Year-5-Full-Spring-Term.pdf											
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12

Lytche	tt Matravers Primary School	Mathematics Long Term Planning							
	Number: Multiplication and Division	Number: Fractions	Number: Decimals and Percentages						
	WRSS: 11	WRSS: 23	WRSS: 9						
	Multiply 2-digits by 1-digit (R)	What is a fraction? (R)	Decimals up to 2 dp						
	Multiply 3-digits by 1-digit (R)	Equivalent fractions (R)	Decimals as fractions						
	Multiply 4-digits by 1-digit	Fractions greater than 1 (R)	Understand thousandths						
	Multiply 2-digits (area model)	Improper fractions to mixed numbers	Thousandths as decimals						
	Multiply 2-digits by 2-digits	• Mixed numbers to improper fractions	Rounding decimals						
	Multiply 3-digits by 2-digits	Number sequences	Order and compare decimals						
	Multiply 4-digits by 2-digits	Compare and order fractions less than 1	Understand percentages						
	Divide 2-digits by 1-digit (R)	Compare and order fractions greater than 1	Percentages as fractions and decimals						
	Divide 3-digits by 1-digit (R)	Add and subtract fractions	Equivalent fractions/decimals/ percentages						
	Divide 4-digits by 1-digit	Add fractions within 1							
	Divide with remainders	Add 3 or more fractions	Ready to Progress Criteria						
		Add fractions	5NPV-1: Know that 10 tenths are equivalent						
	Ready to Progress Criteria	Add mixed numbers	to 1 one, that 1 is 10 times the size of 0.1.						
	5MD-3: Multiply any whole number	Subtract fractions	Know that 10 hundredths are equivalent to 1						
	with up to 4 digits by any one-digit	Subtract mixed numbers	tenth, and that 0.1 is 10 times the size of						
	number using a formal written	Subtract - breaking the whole	0.01.	z					
	method.	Subtract 2 mixed numbers	5NPV-2: Recognise the place value of each	0					
Ð	5MD-4: Divide a number with up to 4	Multiply unit fractions by an integer	digit in numbers with up to 2 decimal places,	AT					
RIN	digits by a one-digit number using a	Multiply non-unit fractions by an integer	and compose and decompose numbers with up						
SP	formal written method, and interpret	Multiply mixed numbers by integers	to 2 decimal places using standard and non-	S					
•••	remainders appropriately for the	Calculate fractions of a quantity	standard partitioning.	NO					
	context.	Fraction of an amount (R)	5NPV-3: Reason about the location of any	ŭ					
		Using fractions as operators	number with up to 2 decimals places in the						
	NCETM PD Materials		linear number system, including identifying						
	Spine 2: Multiplication and Division	Ready to Progress Criteria	the previous and next multiple of 1 and 0.1						
	2.14 Multiplication: partitioning	5F-2: Find equivalent fractions/ understand that they have the	and rounding to the nearest of each.						
	leading to short multiplication	same value and the same position in the linear number system.	5F-3: Recall decimal fraction equivalents for						
	2.15 Division: partitioning leading to	5F-1: Find non-unit fractions of quantities.	half, quarter, fifth tenth and for multiples of						
	short division		these proper fractions.						
	2.23 Multiplication strategies for	NCETM PD Materials							
	larger numbers and long	Spine 3: Fractions	NCETM PD Materials						
	multiplication	3.1 Preparing for fractions: the part-whole relationship	Spine 1: Addition and Subtraction						
		3.2 Unit fractions: identifying, representing and comparing	1.23 Compositing & calculation: tenths						
		3.3 Non unit fractions: identifying, representing and comparing	1.24 Composition & calculation: hundredths						
		<u>5.4</u> Adding and subtracting within one whole	and thousandths						
I		3.5 Working across one whole: improper fractions/ mixed numbers	Spine 3: Fractions						
I		3.6 Multiplying whole numbers and fractions	3.10 Linking fractions, decimals and						
I		3.7 Finding equivalent fractions and simplifying fractions	percentages						
		3.8 Common denomination: more adding and subtracting							

ytchett Matravers Primary School			Mat	thematics Long		S West 2021				
	Year 5									
SUMMER Term: https://wrm-13	b48.kxcdn.con	n/wp-content	/uploads/202	1/03/Year-5-	Full-Summer-	<u>Term.pdf</u>				
Week 1 Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12

ytche	tt Matravers Primary School	Ma	thematics Long Term Planning			S West 2021
	Number: Decimals	Measurement:	Geometry: Properties of Shape	Geometry: Position and	Measurement:	
	WRSS: 12	Converting Units	WRSS: 12	Direction	Volume	
	Adding decimals within 1	WRSS: 7	Identify angles (R)	WRSS: 9	WRSS: 4	
	Subtracting decimals within 1	Kilometres (R)	Compare and order angles (R)	Describe position (R)	What is	
	Complements to 1	Kilograms and	Measure angles in degrees	Draw on a grid (R)	volume?	
	Adding decimals - crossing the	kilometres	Measuring with a protractor	Position in the first	Compare	
	whole	Millimetres and	Drawing lines and angles accurately	quadrant	volume	
	Adding decimals with the same	millilitres	Calculating angles on a straight line	Translation	Estimate	
	number of decimal places	Metric units	Calculating angles around a point	Translation with	volume	
	Subtracting decimals with the same	Imperial units	Triangles (R)	coordinates	Estimate	
	number of decimal places	Converting units of	Quadrilaterals (R)	Lines of symmetry (R)	capacity	
	Adding decimals with a different	time	Calculating lengths and angles in	Complete a symmetric		
	number of decimal places	Timetables	shapes	figure (R)	Ready to	
	Subtracting decimals with a		Regular and irregular polygons	Reflection	Progress	
	different number of decimal places	Ready to Progress	Reasoning about 3-D shapes	Reflection with	Criteria	
	Adding and subtracting wholes and	Criteria		coordinates	N/A	
	decimals	5NPV-5: Convert	Ready to Progress Criteria			
	Decimal sequences	between units of	5G-1: Compare angles, estimate and	Ready to Progress	NCEIM PD	NO
2	Multiplying decimals by 10, 100 and 4 and	measure, including using	measure angles in degrees (*) and	Criteria	Materials	Ĕ
¥	1,000 - Dividio a de since la hue 40, 400 and	common decimals and	draw angles of a given size.	N/A	Spine Z:	DA
₹		fractions.			Multiplication	DLI
ร	1,000	NCETH DD Materials	NCETM PD Materials	NCETM PD materials		NS(
	Pondy to Prograss Critoria	NCETM PD Materials	N/A	Spine 1: Addition and	<u>Z.ZU</u> Multiplication	0
	FMD 1: Multiply and divide numbers	Spine 1: Addition and		1 27 Negative numbers	Multiplication	U
	by 10 and 100: understand this as	1 24 Composition and		<u>1.27</u> Negative numbers.	factors and	
	equivalent to making a number 10 or	calculation: hundredths		and calculating (TP 6)	volume	
	100 times the size or 1 tenth or 1	and thousandths (TP 5)		and calculating (11-0)	volume	
	hundredth times the size					
	nundreuth times the size.					
	NCETM PD Materials					
	Spine 1: Addition and Subtraction					
	1.23 Compositing and calculation:					
	tenths					
	1.24 Composition and calculation:					
	hundredths and thousandths					
	Spine 2: Multiplication and Division					
	2.19 Calculation: x/\div fractions by					
	whole numbers					
	2.29 Decimal place value knowledge,					

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AUT	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
	Number: Place V		Number:	Addition Sul	ptraction Mul	tiplication and	Division	Weeke	Number:	Fractions	Week II	Geometry:
	WRSS: 8		WRSS: 23						Position and			
	Numbers to 10,000 (R)		Add whole numbers with more than 4 digits (R)					Equivalen	t fractions	(R)		Direction
	Numbers to 100.000 (R)		Subtract whole numbers with more than 4 digits (R)				Simplify fractions			WRSS: 4		
	• Numbers to a million (R)		Inverse operations (addition and subtraction) (R)				Improper fractions to mixed numbers (R)			The first		
	Numbers to ten million		Multi-step addition and subtraction problems (R)					Mixed nur	nbers to im	proper fracti	ions (R)	quadrant
	Compare and order any n	umber	Add and subtract integers - Multiply 4-digits by 1-digit (R) - Multiply				Fractions on a number line			Four		
	Round numbers to 10, 100	0 and 1,000	2-digits (area model) (R)					Compare and order (denominator)			quadrants	
	(R)	Multiply 2-digits by 2-digits (R)					Compare	and order (numerator)		Translations	
	Round any number		Multiply 3-digits by 2-digits (R)					Add and s	subtract frac	ctions		Reflections
	Negative numbers		Multiply up to a 4-digit number by 2-digit number					Add mixed	d numbers ((R)		
			Divide 4-digits by 1-digit (R)					Add fract	ions			Ready to
	Ready to Progress C	Iriteria	 Divide with remainders (R) 					Subtract i	mixed numb	bers (R)		Progress
	6NPV-2: Recognise the place	ce value of	Short division					Subtract fractions			Criteria	
	each digit in numbers up to	Division using factors					Mixed addition and subtraction			NA		
	including decimal fractions	, and	Long division				Multiply fractions by integers					
	compose and decompose nu	Common factors				Multiply fractions by fractions			NCEIM PD			
	standard partitioning	na non-					Divide fractions by integers			Materials		
	6NPV-3. Peason about the	\square Primes to 100				Fraction of an amount			Addition and			
	any number up to 10 millio					\square Fraction of an amount - find the whole			Subtraction			
Ž	decimal fractions in the liv	of operations						1 27 Negative				
<u>S</u>	system, and round numbers	stem, and round numbers, as						R	eadv to Pro	gress Criteri	ia	numbers:
5	appropriate, including in co	ontexts.	Reason from known facts				6F-1: Reco	gnise when	fractions can	n be	counting.	
∢			Ready to Progress Criteria				simplified.	and use con	nmon factors	sto	comparing	
	NCETM PD Mater	6AS/MD-2: Use a given additive or multiplicative calculation to derive				simplify fra	ctions.			and		
	Spine 1: Addition and Subtr	raction	or complete a	related calcul	lation, using a	rithmetic prope	erties, inverse	6F-2: Expre	ess fractions	s in a commo	n	calculating
	1.26 Composition and calcu	ulation:	relationships,	and place-valu	ue understandi	ing		denominati	on and use	this to compa	are	(TP 6)
	Multiples of 1,000 up to 1,0)00,000	NCETM PD					fractions th	at are simil	ar in value.		
	*Revisit place value from Y	'5	Spine 1: Addition and Subtraction					6F-3: Comp				
	1.30 Composition and calcu	ulation:	1.20 Algorithn	ns: column add	Jition			denominato				
	numbers up to 10,000,000 ((TP 2, 3 and	1.21 Algorithn	ns: column sub	otraction			than 1, usir				
	5)		*Revisit for co	*Revisit for column methods				reasoning a				
			<u>1.30</u> Composit	ion and calcul	ation: number	s up to 10,000,	000	comparison	strategy.			
			Spine 2: Multi	plication and L	Jivision		<i>.</i>					
			$\frac{2.9}{1000}$ limes tab	les: / and patt	erns within/ac	cross times tabl	les (square		NCE I M PL) Materials		
			numbers)	partitioning la	ading to chart	division (if nos		Spine 3: Fra	actions	wholetime	ranar	
			2.15 Division: partitioning leading to short division (if necessary)			Lessary)	3.5 Working across one whole: improper					
			2.20 Multiplica	multiples prir	se factors/ vol	une (cube nun	ibers)	Tractions and mixed numbers				
	1		2.21 Factors, multiplies, prime numbers and composite numbers			ion	3.7 Finding equivalent fractions and					
	1		2 23 Multiplic	ation strategie	s for larger put	mbers / long m	ultiplication	3 8 Commo	n denomina	tion: more a	dding and	
			2.23 multiplica	dividing by tw	o-digit divisor			subtracting	(TP 5)		during and	
	1		2.25 Using cor	mpensation to	calculate	,		3.9 Multinh	(ing fraction	ns and dividir	רס	
			2.28 Combinin	ig division with	n addition and	subtraction		fractions by	/ a whole nu	umber (TP 1	and 3)	

Lytche	tt Matravers Pr	imary School			٨	Mathematics Long Term Planning					S West 2021	
	Year 6											
Year	Year 6 SPRING Term: https://wrm-13b48.kxcdn.com/wp-content/uploads/2020/12/Year-6-Full-Spring-Term.pdf											
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10 Week 11	Week 12	

ytche	tt Matravers Primary School		Mathematics L	ong Term Planning			S West 2021
	Number: Decimals	Number: Percentages	Number: Algebra	Measurement:	Measurement: Perimeter,	Number: Ratio	Statistics
	WRSS: 10	WRSS: 6	WRSS: 6	Converting Units	Area and Volume	WRSS: 7	WRSS: 8
	Decimals up to 2 d.p (R)	• Understand percentages	Find a rule - one step	WRSS: 5	WRSS: 7	Using ratio	Read and
	Understand thousandths	(R)	Find a rule - two step	Metric measures	Shapes - same area	language	interpret line
	(R)	Fractions to percentages	Forming expressions	Convert metric	Area and perimeter	Ratio and fractions	graphs
	• Three decimal places	Equivalent fractions/	Substitution	measures	Area of a triangle	Introducing the	Draw line
	Multiply by 10, 100,	decimals/ percentages	Formulae	Calculate with	Area of parallelogram	ratio symbol	graphs
	1,000	Order fractions/	Forming equations	metric measures	What is volume? (R)	Calculating ratio	Use line
	^o Divide by 10, 100, 1,000	decimals/percentages	Solve simple one-step	Miles and	Volume - counting cubes	Using scale factors	graphs to solve
	X decimals by integers	Percentage of an amount	equations	kilometres	volume of a cuboid	Calculating scale	problems
	Divide decimals by	Percentages - missing	Solve two-step	Imperial measures		factors	Circles
	integers	values	equations	-	Ready to Progress Criteria	Ratio and	Read and
	Division to solve		Find pairs of values	Ready to Progress	6G-1: Draw, compose, and	proportion problems	interpret pie
	problems	Ready to Progress	Enumerate	Criteria	decompose shapes according		charts
	Decimals as fractions	Criteria	possibilities	NA	to given properties,	Ready to Progress	Pie charts
	Fractions to decimals	NA			including dimensions, angles	Criteria	with
			Ready to Progress	NCETM PD	and area, and solve related	6AS/MD-3: Solve	percentages
	Ready to Progress Criteria	NCETM PD	Criteria	Spine 2:	problems	problems involving	Draw pie
	6NPV-2: Recognise the	Spine 3: Fractions	6AS/MD-4: Solve	Multiplication and		ratio relationships	charts
	place value of each digit in	3.10 Linking fractions,	problems with 2	Division	NCETM PD		The mean
	numbers up to 10 million,	decimals and percentages	unknowns	2.29 Decimal place	Spine 2: Multiplication and	NCETM PD	
(7	including decimal			value knowledge,	Division	Spine 2:	Ready to
ž	fractions, and compose		NCETM PD	multiplication and	2.16 Multiplication contexts:	Multiplication and	Progress
R	and decompose numbers		Spine 1: Addition and	division	area and perimeter (1)	Division	Criteria
S	using standard and non-		Subtraction		2.20 Multiplication with	2.27 Scale factors,	NA
	standard partitioning		1.28 Common		three factors and volume	ratio and	
			structures and the		2.30 Multiplicative contexts:	proportional	NCETM PD
	NCETM PD		part-part-whole		area and perimeter (2)	reasoning	Spine 1
	Spine 1: Addition and		relationship			_	1.28 Common
	Subtraction		1.31 Problems with two				structures and
	1.24 Composition and		unknowns				the part-part-
	calculation: hundredths						whole
	and thousandths (for						relationship
	3d.p.)						Spine 2
	Spine 2: X and Division						2.26 Mean
	2.19 Calculation: x/÷						average and
	decimal fractions by whole						equal shares
	numbers						Spine 3
	2.28 Combining division						3.10 Linking
	with addition/ subtraction						fractions,
	2.29 Decimal place value						decimals and
	knowledge, multiplication						percentages
	and division						-
	Spine 3: Fractions						
	3.10 Linking fractions,						
	decimals and percentages						

Mathematics Long Term Planning

	Year 6											
Year	ear 6 SUMMER Term: https://wrm-13b48.kxcdn.com/wp-content/uploads/2021/03/Year-6-Full-Summer-Term.pdf											
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
SUMMER	Geometri Measure witi Draw lines a Introduce ar Angles on a Angles on a Calculate ar Calculate ar Vertically op Angles in a t Angles in a t Angles in a t Angles in a t Angles in sp Draw shapes Draw nets o Ready 6G-1: Draw, c shapes accord including dime solve related NC Spine 1: Additt <u>1.28</u> Common part-whole re angles only)	ry: Properties of WRSS: 14 h a protractor and angles accur ngles straight line (R) ngles oposite angles triangle - specia triangle - specia triangle - missin ecial quadrilate gular polygons s accurately f 3-D shapes r to Progress Cr compose, and de ling to given pro- ensions, angles problems ETM PD Materi cion and Subtrace structures and lationship (TP 4	of Shape rately (R)) al cases ig angles erals riteria ecompose operties, and area, and the part- the part- the missing	Consolida Prepara Revi	tion/SATS tion and ision		Consolidat	ion, Invest	igations and	d Preparatio	ons for KS3	