Year 1 Autumn Term- Medium Term Planning



	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12 - 14
		Pla	ace Value (v	vithin 10)			Addition 8	& Subtractio	on <i>(within 1</i> 0	0)	Geometry (shape)	Consolidation
National Curriculum Objectives	representat equal to, m Count to an or 1, or fror Identify and representat equal to, m Compare no	d represent nu tions including ore than, less ad across 100, m any given n d represent nu tions including ore than, less umbers using	umbers using o g the number li than (fewer), i forwards and umber umbers using o g the number li than (fewer), i and = signs	bjects and pictoria ine, and use the la most, least backwards, beginn bjects and pictoria ine, and use the la most, least	nguage of: ning with zero al nguage of:	representat equal to, mo Read, write (+), subtract Represent a 20	represent nun ions including t ore than, less t and interpret r tion (–) and equ and use numbe	nbers using ob the number lir han (fewer) mathematical uals (=) signs er bonds and re	jects and picto le, and use the statements inve	rial language of: olving addition ion facts within	Recognise and name common 2-D and 3-D shapes, including: 2-D shapes [for example, rectangles (including squares), circles and triangles]; 3-D shapes [for example, cuboids (including cubes), pyramids and spheres]	Y1 Autumn Term Assessment or RTP Assessments
White Rose Small Steps	Step 1 Sort Step 2 Cour Step 3 Cour Step 4 Repr Step 5 Recc Step 6 Cour Step 7 1 mc Step 8 Cour Step 9 1 les Step 10 Cor Step 11 Fev Step 12 Les Step 13 Cor Step 14 Orc Step 15 The	objects nt objects nt objects froi resent objects ognise numbe nt on from an ore nt backwards is mpare groups wer, more, sai s than, greate mpare numbe der objects an e number line	m a larger grou s rs as words y number within 10 by matching me er than, equal t ers id numbers	0		Step 2 Part- Step 3 Writt Step 4 Fact Step 5 Num Step 6 Syste Step 7 Num Step 8 Addi Step 9 Addi Step 10 Add Step 11 Find Step 12 Sub Step 13 Fac Step 14 Sub Step 15 Tak Step 16 Sub Step 17 Add	traction – find t families – the traction – take e away (How m traction on a n l or subtract 1 d	ences tion facts hin 10 bonds within 0 ether e a part eight facts away/cross o hany left?) umber line or 2	10 ut (How many l TS and ADDRE	·	Step 1 Recognise and name 3-D shapes Step 2 Sort 3-D shapes Step 3 Recognise and name 2-D shapes Step 4 Sort 2-D shapes Step 5 Patterns with 2-D and 3-D shapes Y1 POST ASSESSMENT/RTP ASSESSMENTS and ADDRESS Y1 GAPS	
RTP Criteria	Step 15 The number line Y1 POST ASSESSMENT/RTP ASSESSMENTS and ADDRESS Y1 GAPS INPV-1 Count within 100 (10), forwards and backwards, starting wi any number (1) INPV-2 Reason about the location of numbers to 20 (10) within the linear number system, including comparing using < > and = (1)					1NF-1 Deve 1AS-1 Com 10 into part 1AS-2 Read subtraction	lop fluency in a pose numbers s, including rec l, write and inte	addition and s to 10 from 2 p cognising odd a erpret equatio (=) symbols, ai	ubtraction fact: arts, and partit and even numb ns containing a	s within 10. tion numbers to pers	 1G-1 Recognise common 2D and 3D shapes presented in different orientations, and know that rectangles, triangles, cuboids and pyramids are not always similar to one another. 1G-2 Compose 2D and 3D shapes from smaller shapes to match an example, including manipulating shapes to place them in particular orientations. 	

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12 - 14			
			lace Value (v						on <i>(within 1</i> 0	•	Geometry (shape)	Consolidation			
	ngage with	mathematic	al activities and	problems, making	; links and moving	g between diff	erent represer	ntations (concr	rete, pictorial, a	bstract).					
	Independer	ntly choose t	o scaffold thinki	ng using concrete	and pictorial rep	resentations,	if required.					Y1 Autumn			
∎s	Independer	ntly choose t	o represent thin	king using concre	te, pictorial or ab	stract represe	ntations, as ap	propriate.				Term Assessment			
Skills	Begin to inc	dependently	find a starting p	oint to break into	a problem.							or			
Solving	Use trial an	Jse trial and improvement strategy.													
Solv															
Problem		ndependently find possibilities. Vith support (adult, peer) check work (e.g. look for other possibilities, repeats, missing answers and errors).													
plde				-		-									
Pre	Independer	ntly pattern s	spot and copy ar	nd continue a patt	ern (objects, shap	pes, numbers,	spatial) predic	ting what will	come next.						
	With suppo	ort, investigat	te statements.												
	. Describe a	nd explain w	vith reasons.									-			
Skills	Listen to ot	hers' explana	ations and try to	make sense of th	em.										
g St															
Reasoning															
IOSE															
Rea															



Year 2 Autumn Term- Medium Term Planning

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
		Place	Value			Addit	ion & Subtra	ction		Ge	ometry <i>(sha</i>	pe)	Conso	lidation
National Curriculum Objectives	words (Y1) Read and writ words Read and writ words Identify, repro- representatio Count in step number, forw Recognise the (tens, ones)	te numbers to a te numbers to a esent and estim ons, including th s of 2, 3 and 5 f vard and backw e place value of	rom 0, and in 10	umerals and in umerals and in ing different Os from any -digit number	(Y1) Recall and use and use relate Add and subtr representation a 2 a 2 b two a do	d use number bo addition and su d facts up to 10 act numbers us ns, and mentally -digit number a -digit number ao 2-digit numbe ding three 1-dig order numbers	ubtraction facts 0 ing concrete ob, 1, including: nd 1s, nd 1os, rs it numbers	to 20 fluently, a lects, pictorial	and derive	shapes, includ line symmetry Compare and shapes and ev Identify and d shapes, includ vertices and f	escribe the pro ling the number / in a vertical lin sort common 2 /eryday objects lescribe the pro ling the number aces hapes on the su	r of sides, and e -D and 3-D perties of 3-D r of edges,	Asses RTP Asso	mn Term sment or essments or SATs
White Rose Small Steps	Step 1 Numbo Step 2 Count Step 3 Recogn Step 4 Use a p Step 5 Partitic Step 6 Write 1 Step 7 Flexibl Step 8 Write 1 Step 9 10s on Step 10 10s a Step 11 Estim Step 12 Comp Step 13 Comp Step 14 Order Step 15 Coun Step 16 Coun	objects to 100 l nise tens and or place value chai on numbers to numbers to 100 ly partition num numbers to 100 of the numbers to 100 of the numbers of pare objects pare numbers r objects and nu t in 2s, 5s and 1 tt in 3s	by making 10s nes rt 100) in words bers to 100) in expanded fo ne to 100 umber line to 100 n a number line	0	Step 1 Bonds i Step 2 Fact fai Step 3 Related Step 4 Bonds i Step 5 Add an Step 6 Add by Step 7 Add thi Step 8 Add to Step 9 Add aci Step 10 Subtra Step 12 Subtra Step 13 10 mo Step 14 Add a Step 15 Add thi Step 16 Add thi Step 17 Subtra Step 18 Subtra Step 19 Mixed Step 20 Comp Step 21 Missin	milies - addition I facts to 100 (tens) d subtract 1s making 10 ree 1-digit numl the next 10 ross a 10 act across 10 act from a 10 act a 1-digit num	and subtraction pers obers nber from a 2-di pers (not across pers (across a 10 numbers (not ac numbers (across ubtraction numbers (across ubtraction ntences lems	git number (acr a 10)) ross a 10) a 10)	ross a 10)	Step 1 Recogn Step 2 Count Step 3 Count Step 4 Draw 2 Step 5 Lines o Step 6 Use lin shapes Step 7 Sort 2- Step 8 Count Step 9 Count Step 10 Count Step 11 Sort 3 Step 12 Make shapes	f symmetry on es of symmetry D shapes faces on 3-D sh edges on 3-D sh t vertices on 3-I B-D shapes patterns with 2 SSMENT/RTP 4	0 shapes apes shapes shapes to complete apes D shapes 2 shapes 2 -D and 3-D		

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
		Place	e Value			Addit	ion & Subtra	iction		Ge	ometry (sha	ape)	Conso	lidation
	digit numbers numbers usin 2NPV–2 Reas number in the	s and compose g standard and on about the lo	value of each di and decompose non-standard p ocation of any tw r system, includi ole of 10 (1)	two-digit artitioning. o-digit	continued pra 2AS-1 Add an 2AS-2 Recogr questions of t 2AS-3 Add an and subtraction two-digit num 2AS-4 Add an	inctice. Ind subtract across hise the subtract he form, "How in ad subtract within on facts: add an inber. Ind subtract within	tion structure of many more?" in 100 by applyi d subtract only o in 100 by applyi	f 'difference' an (1) ong related one- ones or only ter ng related one-	d answer digit addition ns to/from a digit addition	properties of compare share	cise language to 2D and 3D shap bes by reasonin nd differences ir	pes, and g about	Asses C RTP Asse C	mn Term sment or essments or SATs
Working Towards	demonstrate may use struc	an understandi ctured resource	umber into tens ing of place value is to support the ers in numerals u	e, though they m	WTS: recall a associated fac WTS: add and numbers and	t least four of th :ts d subtract two-c tens, where no	d subtract any 2 ne six number bo digit numbers an regrouping is re or using apparat	onds for 10 and ad ones, and two quired, explaini	reason about o-digit	shapes from a	some common 2 a group of shap e shapes and de erties	es or from		
Expected	EXS: partition combinations	any two-digit i	s of ones, twos, number into diff es, explaining th apparatus	erent	explaining the EXS: recall all	ir method verba number bonds alate bonds to a	two-digit numbe ally, in pictures to and within 10 ind within 20, re	or using appara 0 and use these	tus to reason	and 3-D shap	nd describe pro es, including nu es, faces and lin	mber of sides,		
Greater Depth		ales* where no imate points in	t all numbers on between	the scale are	complex prob	lems and explai	imbers and relat in their thinking problems that in				e similarities an D shapes, using			
Problem Solving Skills	Independenti Independenti Independenti With support Independenti Independenti Pattern spot a	y choose to sca y choose to rep y find a starting work systemat y find possibilit y check work (e and predict wha	•	ing concrete, pi using concrete, into a problem. r possibilities, ri t in a pattern/se	ctorial or abstra pictorial or abst epeats, missing	ct representation ract representation answers and err	ons, if required. tions, as approp rors).		pictorial, abstra	act).				
Reasoning Skills	Explain with r Listen to othe Begin to edit	easons and beg ers' explanation	ginning to use giv s, make sense of leir own and a pe	ven sentence ste f them and com	pare and evalua	•								



Year 3 Autumn Term- Medium Term Planning

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13 - 14
		Place Value	e		Additi	ion & Subtr	action			Multiplication	& Division A		Consolidation
National Curriculum Objectives	representations Recognise the plac number (hundreds	ce value of each d s, tens, ones) n multiples of 4, 8 is than a given nu n multiples of 4, 8 mbers up to 1,00	5, 50 and 100; find 10 mber 3, 50 and 100 10 in numerals and	 a 3-digit n a 3-digit n a 3-digit n Add and subwritten met Solve problen number fact subtraction 	umber and on umber and ter umber and hu otract numbers hods of colum ems, including is, place value, e answer to a o	ns	ree digits, usi nd subtractio er problems, mplex additio	n using n and	order (commut: cannot (Y2) Count in steps of forward and bar Recall and use r multiplication ta (Y2) Recall and use r multiplication ta Write and calcu and division usi including for 2-of	multiplication and d ables, including reco multiplication and d ables ilate mathematical s ng the multiplicatio digit numbers times	and in 10s from a ivision facts for th ognising odd and ivision facts for th statements for mu n tables that they 1-digit numbers,	another any number, le 2, 5 and 10 even numbers le 3, 4 and 8 ultiplication know,	Y3 Autumn Term Assessment or RTP Assessments
White Rose Small Steps	Y2 PRE-ASSESSME Step 1 Represent r Step 2 Partition nu Step 3 Number lim Step 4 Hundreds Step 5 Represent r Step 6 Partition nu Step 7 Flexible par Step 8 Hundreds, 1 Step 9 Find 1, 10 o Step 10 Number li Step 11 Estimate o Step 12 Compare r Step 13 Order nun Step 14 Count in 5 Y3 POST ASSESSM Y3 GAPS	numbers to 100 umbers to 100 e to 100 numbers to 1,000 umbers to 1,000 rtitioning of numb tens and ones or 100 more or les ne to 1,000 on a number line to numbers to 1,000 nbers to 1,000 505) pers to 1,000 ss to 1,000	Step 1 Appl Step 2 Add Step 3 Add 4 Step 4 Add 4 Step 5 Spot Step 6 Add 4 Step 7 Add 4 Step 9 Subt Step 10 Mal Step 11 Add Step 12 Sub Step 13 Add Step 13 Add Step 15 Sub Step 17 Add Step 18 Sub Step 19 Con Step 20 Esti Step 21 Inve Step 22 Mal	y number bond and subtract 1 and subtract 1 and subtract 1 the pattern 1s across a 10 10s across a 10 ract 10s across (e connections two numbers tract two num two numbers tract two num two numbers tract two num tract two num tract two num tract two num tract a 2-digit nplements to 1 mate answers erse operation ke decisions	1s Os Oos Oo Step 8 Subt s a 100 s c (no exchange bers (no exchange bers (no exchange bers (no exchange bers (no exchange bers (across a 10) bers (across a 10) bers (across a bers (across a digit numbers number from 100	ract 1s across) ange) 10) 100 a 3-digit num	ber	Y2 PRE-ASSESSI Step 1 Multiplic Step 2 Use arra Step 3 Multiple Step 4 Multiple Step 5 Sharing a Step 6 Multiply Step 7 Divide by Step 8 The 3 tin Step 9 Multiply Step 10 Divide b Step 11 The 4 ti Step 12 Multipl Step 13 Divide b Step 14 The 8 ti Step 15 The 2, 4	s of 2 s of 5 and 10 and grouping by 3 y 3 nes-table by 4 by 4 imes-table y by 8 by 8	5 Y2 GAPS IS	RESS Y3 GAPS	

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13 – 14
		Place Value	2		Additi	ion & Subtr	action			Multiplication	& Division A		Consolidation
RTP Criteria	and that 100 is 10 identify and work of three-digit multiple 3NPV–2 Recognise digit numbers, and numbers using sta 3NPV–3 Reason at number in the line identifying the pre (1) 3NPV–4 Divide 100 read scales/number	times the size of 3 out how many 10 es of 10 (1) e the place value of d compose and de ndard and non-sta pout the location of ar number system vious and next ma 0 into 2, 4, 5 and 3 er lines marked in	s there are in other of each digit in three- compose three-digit andard partitioning. of any threedigit	 10, through 3NF–3 Applemultiplicative 3AS–1 Calcu 3AS–2 Add amethods. 3AS–3 Maniniverse relationshoth relate the commutation 	re fluency in a continued pra y place-value k re number fact ulate complem and subtract u ipulate the add tionship betwe to the part-pa tative property perty for subtra	actice. knowledge to k ts (scaling fact: ents to 100. p to three-digi ditive relations een addition an int-whole struct y of addition, a	known <u>additiv</u> s by 10) (1) it numbers us ship: Understa nd subtraction cture. Unders	e and ing columnar and the a, and how tand and use	facts, in the 10, products in thes corresponding r 3NF–3 Apply pla <u>multiplicative</u> no 3MD–1 Apply ku	ace-value knowledg umber facts (scaling nown multiplicatior lems with different	blication tables, ar bles as multiples o ge to known addit g facts by 10) (2) n and division fact	nd recognise of the ive and ts to solve	Y3 Autumn Term Assessment or RTP Assessments
Problem Solving Skills	Independently cho Independently cho Independently find Independently wo Independently find Independently che Pattern spot and p Independently inve	ematical activities pose to scaffold th pose to represent d an efficient way rk systematically. d possibilities usin eck and improve w predict what will co estigate conjectur	s and problems, making l inking using concrete, p thinking using concrete, to solve a range of prob g patterns spotted to su vork (e.g. look for other ome next in a pattern/se res and provide example pose a similar problem for	ictorial or abs pictorial or al lems. poort. possibilities, r equence (num s and counter	tract represen bstract represe epeats, missin ibers, shape on	atations, if requentations, as a generations, as a	uired. ppropriate.		al, abstract).				
Reasoning Skills		convinced explant heir own and a pe f?' questions.	ations and use this to im eer's convinced explanat	•	vork.								

Year 4 Autumn Term- Medium Term Planning



	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12 - 14
		Plac	ce Value		Additio	n & Subtrac	tion	Measurement (area)	Mult	iplication & Divis	ion A	Consolidation
National Curriculum Objectives	words (Y3) Recognise to number (htt Identify, re- different re- Count in m Recognise to number (th Find 1,000 Order and to Read Roma over time, concept of	the place value undreds, tens, present and e presentations ultiples of 6, 7 the place value iousands, hun more or less t compare num	e of each dig ones) (Y3) stimate num 7, 9, 25 and 1 e of each dig dreds, tens a han a given r bers beyond b 100 (I to C) ystem chang e value	bers using ,000 it in a 4-digit nd ones) number 1,000 and know that ed to include the	Add and subtrac digits using the columnar additi appropriate Solve addition a problems in con operations and Estimate and us check answers t	formal written on and subtract nd subtraction itexts, deciding methods to use e inverse opera	methods of tion where two-step which and why	Find the area of rectilinear shapes by counting squares	multiplication tai Recognise and us mental calculatio Count in multiple Use place value, and divide menta	tion and division facts bles up to 12 × 12 se factor pairs and cor ons es of 6, 7, 9, 25 and 1, known and derived fa ally, including: multipl ultiplying together thr	mmutativity in 000 acts to multiply lying by 0 and 1;	Y4 Autumn Term Assessment or RTP Assessments
White Rose Small Steps	Y3 PRE-ASS Step 1 Rep Step 2 Part Step 3 Nun Step 4 Tho Step 5 Rep Step 6 Part Step 7 Flex Step 7 Flex Step 9 Nun Step 10 Est Step 11 Co Step 12 Or Step 13 Ro Step 14 Ro Step 15 Ro Step 17 Ro	SESSMENT and resent numbers ober line to 1,0 usands resent numbers ition numbers ible partitionin l 1, 10, 100, 1,0 ober line to 100 cimate on a nu mpare number der numbers t man numerals und to the near und to the near	d ADDRESS Y rs to 1,000 5 to 1,000 000 rs to 10,000 of to 10,000 mg of number 000 more or 0,000 imber line to irs to 10,000 to 10,000 s arest 10 arest 100 arest 10,000 arest 10,000	3 GAPS rs to 10,000 less 10,000 or 1,000	Y3 PRE-ASSESSI GAPS Step 1 Add and 1,000s Step 2 Add up to no exchange Step 3 Add two exchange Step 4 Add two than one exchan Step 5 Subtract exchange Step 6 Subtract exchange Step 7 Subtract more than one of Step 8 Efficient Step 9 Estimate Step 10 Checkin Y4 POST ASSESS	subtract 1s, 10 o two 4-digit nu 4-digit number nge two 4-digit nur two 4-digit nur two 4-digit nur two 4-digit nur exchange subtraction answers g strategies SMENT/RTP	s, 100s and umbers – s – one s – more nbers – no nbers – one nbers –	Step 1 What is area? Step 2 Count squares Step 3 Make shapes Step 4 Compare areas Y4 POST ASSESSMENT/RTP ASSESSMENTS and ADDRESS Y4 GAPS	Step 1 Multiples Step 2 Multiply a Step 3 6 times-ta Step 4 Multiply a Step 5 9 times-ta Step 6 The 3, 6 a Step 7 Multiply a Step 8 7 times-ta Step 9 11 times- Step 10 12 times Step 11 Multiply Step 12 Divide a Step 13 Multiply	and divide by 6 able and division facts and divide by 9 able and division facts and 9 times-tables and divide by 7 able and division facts table and division fact -table and division fact by 1 and 0 number by 1 and itse three numbers MENT/RTP ASSESSMI	is cts lf	

	Week 1	Week 2 Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12 - 14
		Place Value		Additio	n & Subtrac	tion	Measurement (area)		tiplication & Divis		Consolidation
RTP Criteria	digit number numbers us 4NPV–3 Re number in t identifying	cognise the place value of e ers, and compose and deco sing standard and non-stan ason about the location of the linear number system, i the previous and next mult unding to the nearest of ea	mpose four-digit dard partitioning. any four-digit including iple of 1,000 and	4NF–3 Apply pla known <u>additive</u> facts (scaling fac	and multiplicat	0		thousand, and t apply this to ide there are in oth 4NF–1 Recall m 12x12, and recc as multiples of t 4NF–2 Solve div dividends and o remainders, and according to the 4NF–3 Apply pla and <u>multiplicati</u> (2) 4MD–1 Multiply 100 (keeping to this as equivalent the size. 4MD–2 Manipu	ace-value knowledge to ve number facts (scalin v and divide whole nur whole number quotie nt to making a number late multiplication and understand and apply	he size of 100; w many 100s of 100. on facts up to iplication tables aber (1) wo-digit nvolve appropriately o known additive ng facts by 100) nbers by 10 and nts); understand 10 or 100 times	Y4 Autumn Term Assessment or RTP Assessments
Reasoning Skills Problem Solving Skills	Independer Independer Make sugge Develop an Find and pr Independer Pattern spo Make and in When they Provide a cl Reflect on c Edit and im Investigate	h mathematical activities an htly choose to scaffold thin htly choose to represent th estions of ways to solve a ra d apply a systematic appro edict possibilities that mate thy check and improve work and with support, expres nvestigate conjectures and have solved a problem, po lear, correct, logical justifica- others' justifications and us prove their own and a peer 'what if?' questions. at if?' questions.	king using concrete inking using concrete ange of problems. ach. ch the context usin rk (e.g. look for oth s generalisations/ru provide examples se a similar probler ation and with supple this to improve th	, pictorial or abstr te, pictorial or abs g patterns spotted er possibilities, re ules in words. and counter-exam n for a peer. port, express gene	act representa stract represen I to support. peats, missing a pples.	tions, if requir tations, as app answers, error	propriate. rs and ways to improve).				



Year 5 Autumn Term- Medium Term Planning

	Week 1 Week 2 Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13 - 14
	Place Value	Addit	ion & Subtraction	Mu	Itiplication 8	& Division A		Fract	tions A		Consolidation
National Curriculum Objectives	Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000 Solve number problems and practical problems involving the above	with increasi Add and sub more than for formal writte addition and Solve addition step problem which opera and why Round any n the nearest 1 100,000 Use rounding calculations	tract numbers mentally ingly large numbers tract whole numbers with our digits, including using en methods (columnar I subtraction) on and subtraction multi- ns in contexts, deciding tions and methods to use umber up to 1,000,000 to 10, 100, 1,000, 10,000 and g to check answers to and determine, in the	pairs of a number Solve problems including using t squares and cub Know and use th factors and com Establish wheth prime numbers Recognise and u the notation for Multiply and div decimals by 10, Multiply and div	er, and common f involving multipli their knowledge o oes he vocabulary of p posite (non-prime er a number up to up to 19 use square numbe squared (2) and o ride whole numbe 100 and 1,000	o 100 is prime and recall	given fracti and hundre Recognise r and conver mathemati Compare a are all mult Add and su	ime and write e on, represented edths mixed numbers t from one form cal statements : nd order fractio ciples of the sam ibtract fractions inators that are	d visually, includ and improper f n to the other an > 1 as a mixed r ns whose deno ne number with the same	ling tenths ractions nd write number minators denominator,	Y5 Autumn Term Assessment or RTP Assessments
White Rose Small Steps	Y4 PRE-ASSESSMENT and ADDRESS Y4 GAPS Step 1 Roman numerals to 1,000 Step 2 Numbers to 10,000 Step 3 Numbers to 10,000 Step 4 Numbers to 1,000,000 Step 5 Read and write numbers to 1,000,000 Step 6 Powers of 10 Step 7 10/100/1,000/10,000/100,000 more or less Step 8 Partition numbers to 1,000,000 Step 9 Number line to 1,000,000 Step 10 Compare and order numbers to 10,000 Step 11 Compare and order numbers to 1,000,000 Step 11 Compare and order numbers to 1,000,000 Step 12 Round to the nearest 10, 100 or 1,000 Step 13 Round within 100,000 Step 14 Round within 1,000,000 Step 14 Round within 1,000,000	Y4 PRE-ASSE GAPS Step 1 Ment Step 2 Add v than four dig Step 3 Subtr more than fo Step 4 Roum Inverse oper subtraction) Step 6 Multi subtraction p Step 7 Comp Step 8 Find r Y5 POST ASS	whole numbers with more gits act whole numbers with our digits d to check answers Step 5 rations (addition and -step addition and	Step 1 Multipl Step 2 Commo Step 3 Factors Step 4 Commo Step 5 Prime i Step 6 Square Step 7 Cube n Step 8 Multipl Step 9 Divide Step 10 Multipl	les on multiples on factors numbers umbers umbers ly by 10, 100 an by 10, 100 and ples of 10, 100 a	1,000	Step 1 Find Step 2 Find Step 3 Recc Step 4 Com Step 5 Com Step 6 Com Step 7 Orde Step 8 Com Step 9 Add denominatu Step 10 Add Step 11 Add Step 12 Add Step 13 Add Step 14 Sub Step 15 Sub Step 16 Sub the whole Step 17 Sub	d fractions with d fractions with d to a mixed nu d two mixed nu btract fractions btract from a m btract from a m btract two mixe SSESSMENT/RT	alent to a unit f alent to a non-t nt fractions ractions to mixe bers to imprope ess than 1 than 1 fractions great actions with the in 1 total greater th mber mbers ixed number ixed number – h	raction unit fraction ed numbers er fractions er than 1 e same han 1 preaking	

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13 – 14
	P	lace Value	1	Addit	ion & Subtraction	Mu	Itiplication 8	Division A		Frac	tions A		Consolidation
RTP Criteria				known <u>addit</u>	v place-value knowledge to <u>ive</u> and multiplicative s (scaling facts by 1 tenth or)	and correspon practice. 5NF–2 Apply additive and <u>r</u> facts by 1 ten 5MD–1 Multi understand th or 100 times the times the size 5MD–2 Find f numbers, incl multiples, and	nding division fa place-value know <u>multiplicative</u> nu th or 1 hundred ¹¹ ply and divide nu his as equivalent the size, or 1 ten the size, or 1 t	umbers by 10 and 100; to making a number 10 th or 1 hundredth ples of positive whole factors and common	5F–2 Find en they have th the linear m 5F–3 Recall	quivalent fracti ne same value umber system. decimal fractic	ns of quantities ons and unders and the same p in equivalents f iples of these p	tand that osition in or 1/2, 1/4,	Y5 Autumn Term Assessment or RTP Assessments
Problem Solving Skills	numbers, including common factors and common multiples, and express a given number as a product of 2 or 3 factors.Engage with mathematical activities and problems, making links and moving between different representations (concrete, pictorial, abstract).Independently choose to scaffold thinking using concrete, pictorial or abstract representations, if required.Independently choose to represent thinking using concrete, pictorial or abstract representations, as appropriate.Make suggestions of ways to solve a range of problems.Organise work from the outset, looking for ways to record and work systematically.Find and predict possibilities that match the context using patterns spotted to support.Independently check and improve work (e.g. look for other possibilities, repeats, missing answers, errors and ways to improve).Pattern spot and independently express generalisations/rules in words.Make and investigate conjectures and provide examples and counter-examples.												
Reasoning Skills	Independently check and improve work (e.g. look for other possibilities, repeats, missing answers, errors and ways to improve). Pattern spot and independently express generalisations/rules in words.												



Year 6 Autumn Term- Medium Term Planning

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13 - 14
	Place V	/alue	Additio	n, Subtrad	tion, Mul	tiplication	& Division	Frac	tions A	Fractio	ons B	Measurement	Consolidation
												(converting units)	
National Curriculum Objectives	Read, write, order and up to 10,000,000 and d of each digit Round any whole numb degree of accuracy Use negative numbers i calculate intervals acros Solve number and pract involve the above	etermine the value per to a required n context, and ss zero	which operations Solve problem Use estimation context of a pu- Identify comm Multiply multi using the form Perform ment numbers Divide numbe written methor remainders act Divide numbe formal writter	ons and metho is involving ad in to check ans roblem, an app ion factors, co -digit number: nal written me al calculations ins up to four d od of short divi cording to the rs up to four d in method of lo	dition, subtract dition, subtract wers to calcula propriate degree mmon multiple s up to four dig thod of long m , including with igits by a 2-dig sion where ap context igits by a 2-dig ng division, am	why tion, multiplica et of accuracy es and prime nu gits by a 2-digit ultiplication n mixed operat it number using propriate, inter	umbers whole number ions and large g the formal preting er using the ainders as whole	to express fracti denomination Compare and or including fractio Add and subtrac different denom mixed numbers, concept of equiv Identify commo common multip numbers Solve addition a multi-step probl deciding which o methods to use	mmon multiples ons in the same der fractions, ns > 1 t fractions with inators and using the ralent fractions n factors, les and prime and subtraction ems in contexts, operations and and why nvolving addition,	Multiply proper fr mixed numbers by numbers, support materials and diag Multiply simple pa fractions, writing its simplest form Divide proper frac whole numbers Add and subtract different denomir mixed numbers, u concept of equiva Solve problems in addition, subtract multiplication and Associate a fractic and calculate deci equivalents	y whole ed by grams (YS) airs of proper the answer in tions by fractions with hators and using the lent fractions volving ion, I division on with division	Solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3 decimal places	Y6 Autumn Term Assessment or Assessments or KS2 PAST SAT
White Rose Small Steps	Y5 PRE-ASSESSMENT Y5 GAPS Step 1 Numbers to 1 Step 2 Numbers to 1 Step 3 Read and writ 10,000,000 Step 4 Powers of 10 Step 5 Number line t Step 6 Compare and integers Step 7 Round any int Step 8 Negative num Y6 POST ASSESSMENTS and A	,000,000 0,000,000 te numbers to to 10,000,000 order any teger teger thers	Step 8 Solve Step 9 Short Step 10 Divis Step 11 Intro Step 12 Long Step 13 Solv Step 14 Solv Step 15 Ord Step 16 Mer Step 17 Reas	nnd subtract non factors non multiple of divisibilit es to 100 re and cube ply up to a 4 problems w division sion using fa oduction to l g division wit e problems w e multi-step er of operati ntal calculatio son from kno	integers s -digit numbers -digit numbe ith multiplica ctors ong division h remainder with division problems ons ons and estin own facts	r by a 2-digit ition s nation	number DRESS Y6 GAPS	simplifying Step 2 Equival a number line Step 3 Compa (denominator) Step 4 Compa (numerator) Step 5 Add an fractions Step 6 Add an two fractions Step 7 Add mi Step 8 Subtrace Step 9 Multi-s Y6 POST ASSE	EAPS ent fractions and ent fractions on re and order re and order d subtract simple d subtract any xed numbers ct mixed number tep problems	Y5 PRE-ASSESSI ADDRESS Y5 GA Step 1 Multiply integers Step 2 Multiply fractions Step 3 Divide a integer Step 4 Divide ar an integer Step 5 Mixed qu fractions Step 6 Fraction Step 7 Fraction – find the whole Y6 POST ASSESSI ASSESSMENTS in Y6 GAPS	APS fractions by fractions by fraction by an hy fraction by uestions with of an amount of an amount e SMENT/RTP	Y5 PRE-ASSESSMENT and ADDRESS Y5 GAPS Step 1 Metric measures Step 2 Convert metric measures Step 3 Calculate with metric measures Step 4 Miles and kilometres Step 5 Imperial measures Y6 POST ASSESSMENT/RTP ASSESSMENTS and ADDRESS Y6 GAPS	

	Week 1 Week 2	Week 3 Week 4 Week 5 Week 6 Week 7	Week 8 Week 9	Week 10 Week 11	Week 12	Week 13 - 14
	Place Value	Addition, Subtraction, Multiplication & Division	Fractions A	Fractions B	Measurement	Consolidation
					(converting units)	
RTP Criteria	 6NPV-2 Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and nonstandard partitioning (1) 6NPV-3 Reason about the location of any number up to 10 million, including decimal fractions, in the linear number system, and round numbers, as appropriate, including in contexts. 	 6AS/MD-1 Understand that 2 numbers can be related additively or multiplicatively, and quantify additive and multiplicative relationships (multiplicative relationships restricted to multiplication by a whole number). 6AS/MD-2 Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding. 	 6F–1 Recognise when fractions can be simplified, and use common factors to simplify fractions. 6F–2 Express fractions in a common denomination and use this to compare fractions that are similar in value. 6F–3 Compare fractions with different denominators, including fractions greater than 1, using reasoning, and choose between reasoning and common denomination as a comparison strategy. 	See Autumn Term 'Fractions A' block	6NPV-1 Understand the relationship between powers of 10 from 1 hundredth to 10 million, and use this to make a given number 10, 100, 1,000, 1 tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000) (1) 6NPV-4 Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts (1)	Y6 Autumn Term Assessment or Assessments or KS2 PAST SAT
Reasoni Problem Solving ng Skills Skills	Independently choose to scaffold thir Independently choose to represent th Make suggestions of ways to solve a r Organise work from the outset, lookin Find and predict possibilities that mat Independently check and improve the Pattern spot and begin to express ger Make and investigate conjectures and When they have solved a problem, pos	ng for ways to record and work systematically. ich the context using patterns spotted to support. eir work (e.g. look for other possibilities, repeats, missing answers, error heralisations/proof using words and symbolic notation. I provide examples and counter-examples. e a similar problem for a peer. g generalisations in words and symbolic notation. to improve their own work.	riate.		puro (*)	