## **Andover CE Primary Calculation Policy**

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Addition	Using concrete,	Using concrete, pictorial and	Using concrete, pictorial and	Continue to use concrete,	Continue to use concrete, pictorial	Continue to use concrete,	Continue to use
	pictorial and	abstract representations	abstract representations	pictorial and abstract	and abstract representations	pictorial and abstract	concrete,
	abstract			representations		representations	pictorial but
	representations.	Number bonds to 10 and then to	Continuing number bonds to		Counting in ones and tens.		moving more on
	T	20.	10, 20 and up to 100.	Continuing number bonds.	December of the state of the st	Range of mental strategies	to abstract.
	Touch counting,	If you have you A. C. O you and a least all	A statica su O sica sula cationità con una la cura	Carration for read and	Rounding and adjusting.	to add including the ones	C =
	reciting numbers in	If we know 4+5=9 what else do we know?	Adding 3 single digit numbers.  Use of Dienes/Numicon	Counting forwards and backwards in 100s.	Using near doubles to add.	used in year 4.	Column method including
	order.	we knows	use of Dieries/Norflicon	backwards in 100s.	using hear doubles to add.	Column method including	regrouping.
	developing one	Ensure children understand what	Use of base 10 to combine two	Rounding and adjusting to	Partitioning using numbers only.	regrouping.	regrouping.
	to one	= sign means.	numbers.	add.	Tarinorning using normbers orny.	regrouping.	Use place value
	correspondenc	sign means.	Hombers.	425+90=425+100 then - 10	Column method up to 4 digits		counters for
	e.	Use of number tracks, number	16+7 27+30 Addres24git 63+16	Number lines	including regrouping.		adding
		lines and bead strings to fully	+d +3 Adding 1 right +10 +10 +10 number ent fes +15 +6 number ent ent in 10 +10 +10 +10 number ent ent in 10 +10 +10 +10 number ent ent in 10 +10 +10 number ent			Use	decimals.
	Counting	recall and use number facts to	16 20 23 27 37 47 57 addregues det soules 63 73 79 males	Partition using T (tens), O		243 place	
	groups of	20.		(ones) and H (hundreds).	243	value	Column method
	objects.	Number tracks jumping in ones	34 + 23 = 57 30 + 20 = 50 50 + 40 = 90 78 + 47 = 125 50 + 40 = 90	3 digits + ones		+368	for adding
		+1 +1 +1	30+30=30 4+3=7 8+3=11 8+7=15	3 digits + tens	+368		decimals.
	Counting			3 digits + hundreds	<del>+300</del>	611	Children need
	groups of	6+3=9 <del>&lt;                                     </del>	Facilitative deal bits made with 2 feet water for facility of an experiment for facility of the high feet on an large feet particular builded of follow forms facilitative follows facilitative follows feet for facilitative follows for facilitative follows english contains for facilitative follows for facilitative for facilitative follows for facilitative for facilitative for for facilitative for facilitative for facilitative for facilitative facilitative for facilitative for facilitative fa		611		to be taught
	similar/different	0 1 2 3 4 5 6 7 8 9 10		Partition using numbers		1 1	how to line up
	objects.		Partition using T (tens) and O	alongside the pictorial and	1 1		digits as well as
	0		(ones).	then without.		counters for adding	decimal points.
	Counting 2			123+145		decimals.	6.54
	groups of objects finding		Partition using numbers	123+143		Children can start using	+ 7.89
	out how many		alongside the pictorial and then without.	100+20+3		column method for	14.43
	altogether.		men wimout.	100+20+5		decimals and need to start	14.45
	Learning to look		23+45	200+60+8		adding 3 numbers.	
	at largest group		20+3	Add units first			
	first.		40+5			6.54	
			60+8	Repeat using bridging		+ 7.89	
	Linking counting		Repeat using bridging			14.43	
	to numerals and			337 + 188 = 525			
	pictorial and			300 + 30 + 7			
	number						
	sentences.			100 + 80 + 8			
	1			400 + 110 + 15 = 525			
	Beginning						
	number bonds						
	to 5 and then			F			
	10.			Expanded Column method			
				plus re-grouping.			
	I	1	1				

## Subtraction Using concrete, Using concrete, pictorial and Using concrete, pictorial and Continue to use concrete. Continue to use concrete, pictorial Continue to use concrete, pictorial and abstract pictorial and abstract representations. abstract representations. pictorial and abstract and abstract representations. abstract representations. representations. representations. Physically taking away and Continuing number bonds Counting back in ones and tens. removing objects from a whole within 10, 20 and up to 100. Continuing number bonds. Range of mental strategies Touch counting, Numicon, cubes, counters. Rounding and adjusting. to subtract including the recitina Subtracting single digit Counting forwards and ones used in year 4. numbers in Counting back using number numbers. backwards in 100s. Using near doubles. Column method including order. lines or tracks. developing one Rounding and adjusting to Partitioning using numbers only. regrouping. back 4 in ones. to one correspondenc 425-90=425-100 then +10 Column method up to 4 digits 243 - 87 = including regrouping. e. Learning to 3 5 6 4 47-23 = 24count backwards -243 87 90 Finding the difference using Finding the difference idea of number multilink cubes. getting smaller. Counting on using number line. Partition using T (tens), O (ones) and H (hundreds). Takina away 3 digits - ones one - one less. 3 digits - tens 3 digits - hundreds Taking away larger amounts Partition using numbers 7 - 4 = 3using concrete +1 +1 +1 +1 alongside the pictorial and Use of other resources to take and pictorial then without. examples. away. Learnina that 38 39 40 41 Repeat using bridging Relate to number sentences too. big number comes first, as in Use of base 10 to subtract two Expanded column method addition. numbers. 80 + 9Relate the Partition using numbers Use place value counters alongside the pictorial and above to for subtractina decimals. -30+5number then without. sentences. Repeat using bridging Introduce cups plus regrouping. to partition 238-146=92 numbers using red (ones) and blue (tens) cups. 200+30+8 100+40+6 0 + 90 + 2 Multiplicatio Using concrete, Using concrete, pictorial and Using concrete, pictorial and Using concrete, pictorial and Continue to use concrete, pictorial Continue to use concrete. pictorial and pictorial and abstract abstract representations. abstract representations. abstract representations. and abstract representations. abstract representations. representations. Counting in 2s Counting in 2s, 3s, 5s and 10s. Continue to represent tables Continue times tables work to in different ways- – should build up to all tables – should only Continue to revise times tables Counting in 1s. Counting in 5s Reciting times tables (2s, 5s only need too learn: 3x3, 4x3, need too learn 6x6, 7x7, 9x9, 11x11, and 10s) and showing the facts 6x3, 7x3, 8x3, 9x3, 11x3, 12x3, 7x6, 9x7, 11x9, 12x11, 9x6, 11x7, Counting in 2s. Counting in 10s in different ways. 4x4. 6x4. 7x4. 8x4. 9x4. 11x4. 12x9, 12x12, 11x6, 12x7, 12x6 now. Recall known facts based

Continue to use

moving more on

Column method

Use place value

Column method

15.89

- 9.95

5.94

Continue to use

representations.

concrete,

abstract

pictorial and

Continue to

revise times

tables.

on times table fact.

for subtracting

concrete.

pictorial but

to abstract.

includina

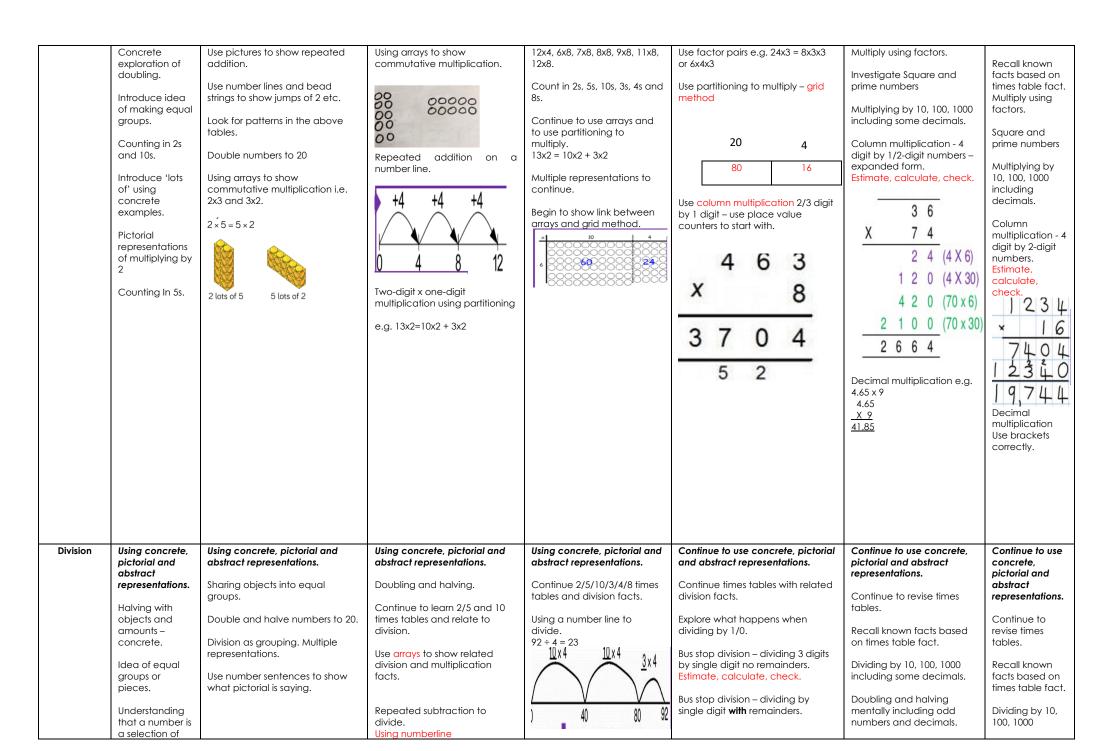
regrouping.

counters for

subtracting

decimals.

decimals.



ones which can be shared out.  Sharing into larger groups of 3/4 – concrete moving onto pictorial.  Use number sentences to show what pictorial is saying.		+3 +3 +3 +3 0 3 6 9 12	Moving onto short division using pictorial examples. No remainders. 2 digits by 1 digit.  615+5  100s 10s 1s 2 3 5 6115  Only use examples based on times tables learnt.	123 5 615 Support with place value counters Estimate, calculate, check.	Bus stop division – dividing by single digit no remainders.  Estimate, calculate, check. Bus stop division – dividing 4 by single digit with remainders.  Estimate, calculate, check.  123 5 6 15  Support with place value counters  Decimal multiplication e.g. 4.65 x 9	including decimals.  Doubling and halving mentally including odd numbers and decimals.  Bus stop division – dividing by single digit with remainders.  Estimate, calculate, check.  Long division  0212 12 2544 24 er. 14 12 24 24 0 Decimal multiplication e.g. 4.65 x 9
--	--	---------------------------	--	--	--	---