Simonside Primary School- Progression in Addition

Year	Foundation	Rapid	Mental	Objective	Method	Practical method	Pictorial/written	Vocabulary
group		Recall	calculation				methods	
EYFS		1 more numbers up to 10		Add one more to a group of objects 0-5 then 0-10, then 0-20	Practical / recorded using ICT (eg digital photos / pictures on IWB)	Range of Toys, Books, Beads, Rhymes, Counters, Number tiles, objects (stationary and moving) number lines, Numicon, stories, Role play.	Drawings of problems.	add, more than, equals, altogether, same as, plus, number bonds, number
		Number bonds in the range of 10.		Addition as combining 2 groups' using single digit numbers in range 0-5 then 0-10 then 0-20 Addition as 'counting on' in range 0-5 then 0-10 then 0-20		Adding 1 more	Begin to record using marks.	sentences,
				Real life problems in range 0-10		Combining 2 groups		

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У1	1 more Number bonds: 5, 6,7,8,9,10 Largest number first.	Number bonds up to 10. 1 or 10 more than a number	U + multiple of 10 TU + multiple of 10	Consolidation of EYFS Read, write and interpret mathematical statements involving addition (+) and equals (=) signs Adding U+U (bridging 10) TU + U by counting on in range 0-20	Practical / recorded using ICT Informal written methods Horizontal recording	Objects, Number lines, numbertrack , 100 squares, Multilink, Numicon, Lego, beads, tape measures, bead strings, fingers, whiteboards, role play,	Jumps along a number track. 3 2 3 4 5 6 7 5 9 30 Jumps along a number line. 0 1 2 0 4 5 6 0 8 9 10 Biager jumps on a number	add, more than, equals, altogether, same as, plus, number bonds, number sentences, Total, equal to, most, least, put together, more
	Add 10. Number Ten plus ones. Doubles up to 10 Use number bonds of 10 to derive bonds of 11	Doubles up to 10 (double 5)		TU + U (bridging 20) Concept of addition in any order Concept of addition and subtraction as inverse operations Solve real life/missing number 1 step problems in range 0-20		Counting on U+U	Horizontal layout. $ \begin{array}{c} \hline $	than

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5.								
	10	Nation	T U U		De that			
Y2	10 more	Number	10+0	Consolidation of 91	Practical	Bead strings, number lines, 100	Number line progressing	ada, more than,
		bonds to	T U U. 1		T (1)))	squares, Dienes, place value cards.	to efficient jumps.	equais,
	Number bonds:	20	10+ multiple of	10+1	Informal written		25.47	altogether,
	20,		10	T U T U	methods		35+4/=	same as, plus,
		Pairs to		10+10				number bonds,
	Number bonds:	100 (using	0+0+0	(bridging 10s / 100)	Horizontal		+30 +3 +2'	number
	12,13,14,15,	multiples			recording		4/ // 80 82	sentences,
	16,17,18,19	o† 10)	+9 (by +10-1)	0+0+0				lotal, equal to,
							Partitioning	most, least, put
	Add 1 digit to 2			Add 9 and 11 by adding 10,			33 + 42	together, more
	digit by			then one less or one more			30 + 40 = 70	than
	bridging.					l	3 + 2 = 5	
				Recognise addition and use			70 + 5 = 75	inverse, sum,
	Partition second			in problem solving including			Move onto column addition	partition
	number, add			numbers, quantities and			IF READY (CARRYING)	
	tens then ones			measures		_	34	
							<u>45</u>	
	Add 10 and					34+20=54	79	
	multiples.						Beginning to record in	
							columns	
	Doubles up to 20					100 10 1		
							Tens Ones	
	Multiples of 5					500, <u>50 5</u> 600, 60 6	2 5	
						700, 70 7		
	Add near					H00. 90. 9X	14/1 7	
	multiples of 10							
	Partition and							
	recombine							

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aroup		Recall	calculation				methods	
У3	Add multiples of	Number	TU+U	Consolidation of Y2	Practical	Counting sticks, dienes, number	Partitioning	add, more than,
	10, 100	bonds to				lines, hundred square, tape		equals,
	A data ta ata ata tu	20/100/1	TU+TU	Add up to 3 digit numbers	Informal written	measures, place value cards, place	57 + 285	altogether,
	Add single digit	000		using formal written	methods	value counters.		same as, plus,
	boundaries		TU+ near	methods (column with			0+200=200	number bonds,
	boundaries	Pairs of	multiple of 10	carrying)	Horizontal	3	50+80=130	number
	Partition second	two-digit			recording		7+5=12	sentences,
	number to add	multiples		Add up to 3-digit numbers			200+130+12=342	Total, equal to,
	Pairs of 100	of 5 and		including bridging	Formal written			most, least, put
		10 that		Add fractions with the	method (with	(Inc.	Column addition	together, more
	Use near doubles	total 100		same denominator within	carrying)		(with carrying)	than, inverse,
	to add			one whole		4 0	243	sum, partition
		Multiples					+179	
	Add near multiples	of 50 and		Estimate answers using			422	column addition
	of 10 and 100 by	100 that		approximation			11	
	adjusting	total					Adding fractions	
	a a justing	1000		Using inverse to check			3/5 + 1/5 = 4/5	
	Partition and			-				
	recombine			Application into problem				
				solving				
				TU + TU				
				HTU + TU				
				HTU + HTU				

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5 1								
Y4	Add multiples of	Bonds to	10+10	Consolidation of Y3	Practical	Place value counters and cards,	Partitioning	add, more than,
	105, 1005, 10005	1000	- · · ·			dienes, coins, fraction cards and	1234 + 3472	equals,
	Fluency of 2 digit +		Pairs of	Add 4 digit numbers using	Informal written	pictures.	1000 + 3000 = 4000	altogether,
	2 digit	Derive	multiples of	formal written methods	methods		200 + 400 = 600 30 + 70 - 100	same as, plus,
		sums of	10/100/1000	including bridging 1000		ST ADDA	4 + 2 = 6	number bonds,
	Partition second	pairs of			Horizontal			number
	number to add	multiples	Three, 2 digit	Add fractions with the	recording	a 👷 👘 🔤	4000 + 600 + 100 + 6 = 4706	sentences,
		of	multiples of 10	same denominator			Column addition	Total, equal to,
	Decimal pairs of 10	10/100/1	(40+50+30)		Formal written		(with contrine)	most, least, put
	and 1	000		Add decimals in the	method (carrying)		(with carrying)	together, more
			Two, 3 digit	context of money			2259 62.49	than, inverse,
	Use near doubles	Multiples	multiples of 10				$\pm 1874 \pm 6241$	sum, partition,
	to add	of 50	(320+150)	Estimate using rounding			4232 £5.89	column addition
	Adjuct both	that total					111	
	numbers before	1000.		Use rounding to check			Adding fractions	Increase,
	adding			answers			Adding fractions	decimal point,
	0	Pairs of					3/5 + 1/5 - 4/5	denominator,
	Add near multiples	fractions		Recognise addition as the				numerator
		to 1 whole		inverse of subtraction				
	Partition and							
	recombine			Solve 2 step problems				
				including money and				
				fractions				

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5.								
Y5	Add multiples of	Derive	Integer +	Consolidation of Y4	Practical	Place value counters and cards,	Column addition	add, more than,
	105 , 1005, 10005,	bonds up	decimal e.g.			coins, fraction cards/pictures	(with carrying)	equals,
	tentiis,	to 1 (1 dp)	19 +3.4	Add numbers of more than	Informal written		5.761	altogether,
	Fluency of 2 digit +			4 digits using column	methods		<u>+3.725</u>	same as, plus,
	2 digit including	Derive		addition		2 2 2 2	9.486	number bonds,
	with decimals	bonds up			Horizontal	88 10 0.05	1	number
		to 10 (1		Addition of numbers with	recording			sentences,
	Partition second	dp)		up to 3 decimal places				Total, equal to,
	number to add				Formal written		Adding fractions	most, least, put
				Add fractions with the	method	6214 +	3/5 + 7/10 = 13/10 = 1	together, more
	Use number facts,			same denominator, and		Th H T u	3/10	than, inverse,
	bridging and place			denominators that are				sum, partition,
	value			multiples of the same				column addition,
	Adjust numbers to			number where answer				increase,
	add			exceeds 1				decimal point.
								denominator
	Partition and			Solve multi-step problems			+	numerator
	recombine			deciding on appropriate				
				operation				tenths
								hundredths
								thousandths
								nousanams,
						2786		purtition, neur
								murriples,
								aenominator
								1

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У6	Add multiples of 10s , 100s, 1000s, tenths, hundredths. Fluency of 2 digit + 2 digit including with decimals Partition second number to add Use number facts, bridging and place value Adjust numbers to add Partition and recombine	Derive bonds up to 1 (2 dp) Derive bonds up to 10 (2 dp)	Decimal + decimal e.g. 19.7+3.4	Consolidation of Y5 Application of all prior skills learnt to increase fluency Solve multi-step problems deciding on appropriate operation Explore the order of operations using brackets Add fractions with different denominators/ mixed numbers	Practical Informal written methods Formal written method	Place value counters, fraction cards/cubes, decimal place value cards	3/4 + 2/3 $9/12 + 8/12 = 17/12 = 1$ $5/12$ $4 6 2 1 4$ $2 5 7 8 7$ $7 2 0 0 1$ $1 1 1$ Column addition with decimals $2 6 . 3 7 + 2 8 . 0 9$ $5 4 . 4 6$ $1 1$	add, more than, equals, altogether, same as, plus, number bonds, number sentences, Total, equal to, most, least, put together, more than, inverse, sum, partition, column addition, increase, decimal point, denominator, numerator, tenths, hundredths, thousandths, partition, near multiples, denominator Common denominator