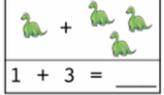# Saltford C of E Primary School – Progression in Addition

| Year group	Objective	Method	Practical methods	Pictorial/written methods	Vocabulary	Mental recall
EYFS	Add one more to a group of objects 0-5 then 0-10, then 0-20 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 Real life problems in range 0-10	Practical / recorded using ICT (eg digital photos / pictures on IWB)	Frogs on logs, Toys, Books, Beads, Rhymes, Counters, Number tiles, objects (stationary and moving) number lines, stories, Role play Adding one more Combining groups Counting on	Drawings of problems Begin to record using marks they can explain 	add, more than, equals, altogether, same as, plus, number bonds, number sentences,	What is one more than…? Number bonds in range 0-10
Y1	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 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	Practical / recorded using ICT Informal written methods Horizontal recording	Objects, Number lines, 100 squares, Multilink, Lego, beads, tape measures, bead strings, fingers, whiteboards, role play, Counting on U+U TU+U	Jumps along a number line in 1s Jumps on a number line in bigger jumps Horizontal layout 1 + 3 = _____ Missing numbers	As previous. Total, equal to, most, least, put together, more than	Consolidation of EYFS Number bonds in range 0-20
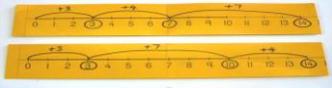
Y2	Consolidation of Y1 TU+T TU + TU (bridging 10s / 100) U + U + U Add 9 and 11 by adding 10, then one less or one more Recognise addition and use in problem solving including numbers, quantities and measures	Practical Informal written methods Horizontal recording	bead strings, number lines, 100 squares, Dienes, place value cards 34 + 20 = 54	Number line progressing to efficient jumps 35 + 47 Partitioning 33 + 42 40 + 30 = 70 3 + 2 = 5 70 + 5 = 75 Beginning to record in columns Tens Ones 2 5 4 7	As previous. inverse, sum, partition	Increase fluency of number bonds to 20 Derive and use related facts up to 100
Y3	Consolidation of Y2 Add up to 3 digit numbers using formal written methods (column) Add up to 3-digit numbers including bridging 100 (carrying 10s) Add fractions with the same denominator within one whole Estimate answers using approximation Using inverse to check Application into problem solving TU + TU including bridging 100, HTU + TU not bridging 1000, HTU + HTU not bridging 1000	Practical Informal written methods Horizontal recording Formal written method	Counting sticks, dienes, number lines, hundred square, tape measures, place value cards. 3200 9 1 5 2 40 3	Partitioning 57 + 285 200 + 0 = 200 80 + 50 = 130 5 + 7 = 12 200 + 130 + 12 = 342 Column addition (no carrying) 243 +126 369 Adding fractions 3/5 + 1/5 = 4/5 Column addition (with carrying) 458 + 479 937 1 1	As previous. column addition	HTU + U HTU + T HTU + H TU + near multiple of 10 Multiples of 50 and 100 that total 1000

Y4	Consolidation of Y3
	
	Add 4 digit numbers using formal written methods including bridging 1000
	
	Add fractions with the same denominator
	
	Add decimals in the context of money
	
	Estimate using rounding and use inverse to check
	
	Solve 2 step problems including money and fractions
		Practical
		
		Informal written methods
		
		Horizontal recording
		
		Formal written method
			Dienes, tape measures, place value counters, coins, fraction cards/pictures
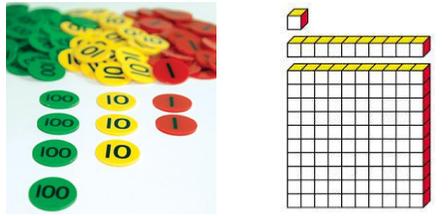			
				Partitioning
				
				1234 + 3472
				1000 + 3000 = 4000
				  200 + 400 = 600
				   30 + 70 = 100
				    4 + 2 = 6
				
				4000 + 600 + 100 + 6 = 4706
				
				Column addition
				(with carrying)
				
				  2358 £3.48
				+1874 + £2.41
				  4232 £5.89
				  1 1 1
				
				Adding fractions
				3/5 + 1/5 = 4/5
				
					As previous.
					
					Increase, decimal point, denominator, numerator
						As previous with increasing fluency

Y5	Consolidation of Y4
	
	Add numbers of more than 4 digits using column addition
	
	Addition of numbers with up to 3 decimal places
	
	Add fractions with the same denominator, and denominators that are multiples of the same number where answer exceeds 1
	
	Solve multi-step problems deciding on appropriate operation
		Practical
		
		Informal written methods
		
		Horizontal recording
		
		Formal written method
			Dienes, place value counters and cards, coins, fraction cards/pictures
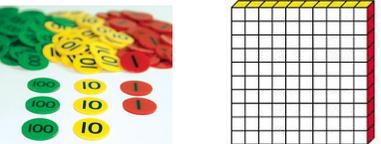			
				Column addition
				(with carrying)
				
				  5.761
				+3.725
				  9.486
				  1
				
				Adding fractions
				3/5 + 7/10 = 13/10 = 1 3/10
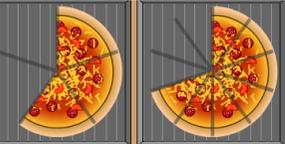				
					As previous.
					
					tenths, hundreths, thousandths, partition, near multiples, denominator
						Add mentally with increasingly large numbers
						
						Bonds up to 1 (one dp)
						
						U + U.t

| Y6 | 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 | Dienes, place value counters, fraction cards/cubes
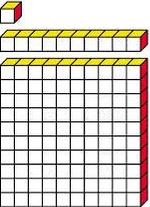
 | 3/4 + 2/3

↓ ↓

9/12 + 8/12 = 17/12 = 1 5/12 | As previous.

Common denominator | As previous with increasing fluency

Add mentally with increasingly large numbers and mixed operations. |