

Calculation Policy

Year 1 Addition

	Mental Strategies	Concrete	Pictorial	Abstract	Vocabulary	Models, Images and resources
Year 1	Add a pair of single-digit numbers, including crossing 10, e.g. $5 + 8$ Add one-digit number to a teens number, e.g. $13 + 5$ Add one-digit to 10, and a multiple of 10 to a one-digit number, e.g. $10 + 7$, $7 + 30$ Add one-digit and two-digit numbers to 20 ($9 + 9$, $18 - 9$), including zero Add near doubles, e.g. $6 + 7$ Represent and use number bonds to 20 (&2,3,4,5,6,7,8,9,11,12,13,14,15,16,17,18,19)	Regrouping to make 10 Using ten frames and counters/cubes or using Numicon. $6 + 5$ TO + 0 not crossing 10s Using base 10. Continue to develop understanding of partitioning and place value. $41 + 8$	Regrouping to make 10 Children to draw the ten frame and counters/cubes. Also draw counters in place value frames TO + 0 not crossing 10s Children to represent the base 10 e.g. lines for tens and dot/crosses for ones.	Regrouping to make 10 Children to develop an understanding of equality $6 + \square = 11$ $6 + 5 = 5 + \square$ $6 + 5 = \square + 4$ Use a bar model TO + 0 not crossing 10s Use a part whole model $41 + 8 = 49$	Add Total More Tens Ones Digit	100 square Number lines Number tracks Bead strings (for children) Bead bar Tens Frame Numicon Place Value Disks Cuisenaire Base tens and ones

		Solve simple one-step problems that involve addition using concrete objects and pictorial representations, and missing number problems. Explain methods & reasoning Use the 100 square to add 10 to a single digit number Record addition by: - showing jumps on prepared number lines - recording number sentences Eg $6 + 5 = 11$ Read, write and interpret mathematical statements involving addition (+) and equals (=) signs		
	Useful IWB links for manipulatives	https://www.coolmath4kids.com/manipulatives/base-ten-blocks https://mathsbot.com/manipulatives/placeValueCounters https://mathsbot.com/manipulatives/bar https://classroomsecrets.co.uk/free-year-1-part-whole-model-iwb-addition-and-subtraction-activity/ https://www.nctm.org/Classroom-Resources/Illuminations/Interactives/Ten-Frame/ http://www.ictgames.com/mobilePage/tenFrame/index.html		