

Fluency in Additive Reasoning, 1-20

Skill	Ideas, Representations and I See Maths Resources
Subitize 1-3 objects in any arrangement	Fingers, dots, quantities 1-3 in children's real-world ISM Resources: <i>Dot Patterns Cards 1-3</i>
Count in the range 2-6, count to compare quantities	Count objects in different arrangements; count objects that can't be moved; count in non-physical contexts e.g. claps. Include perceptually misleading counting contexts.
Relate count sequences to one more/less	Order Numicon; identify one more/less with number cards.
Recognise quantities 4-9 in regular arrangements	10-frames, Numicon, base-5 abacus. ISM Resources: <i>5-frame and 10-frame cards</i>
Count on to add two sets	Combine two sets where one set is hidden. ISM Resources: <i>Count On Races</i>
Recognise sub-groups within a quantity	Subitize quantities 4 and 5 in irregular arrangements; 2-colour counters; pictures with two groups e.g. boys and girls, different types of flowers ISM Resources: <i>Dot pattern cards 4-6, 2-colour cards</i>
Recall addition number bond facts for 3→10	Use 2-colour visuals and resources to build recall of bond facts up to 10. ISM Resources: <i>2-colour cards, Sum Connect 4, Make 6 → Make 10, Bonds to 6 → Bonds to 9</i>
Reason with addition facts within 10, relate to subtraction	'How many hiding' game, compare Numicon to show the difference, know that adding and subtracting the same amount doesn't change the quantity. Derive facts, use 10-frames to model: $4+4=8$ so $4+5=9$ $5+3 = 4+4$ ISM Resources: <i>Sum/Difference Connect 4</i>
Know that one 10 = ten 1s, use to recognise >10	Recognise quantities beyond 10 by counting 10s and 1s. Use 10-frames, Numicon, base-5 abacus.
Use number bonds facts within 10 to know related facts up to 20 <i>Examples: $13+5$ $13+ \underline{\quad} = 20$</i>	Represent calculation facts within 10 (10-frames and base-5 abacus), show related calculations. Example: $7+ \underline{\quad} = 10$ linked to $7+ \underline{\quad} = 20$
Numbers can be changed to make calculation easier	Three numbers can be added in any order, e.g. $7+6+3$, or number can be changed e.g. $9+5$ is the same as $10+4$
Use non-counting strategies for addition calculations that border 10	10-frames and base-5 abacus used to represent doubles facts and near doubles facts, e.g. $7+6$. 10-frame and number line used to represent 'make 10' calculations e.g. $7+4$.
Use non-counting strategies for subtraction calculations that border 10	Children choose whether to count back, find the difference (count up) or use number bond facts, e.g. for $14-3$, $13-8$, $9-5$. Calculations represented by 10-frames and 'tens and ones' cubes.