## **Addition**

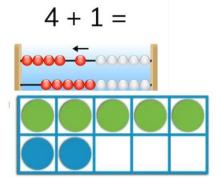
Skill	Year	Representations and Models
Add single digit numbers to 5	Reception	Rekenrek, Fingers, Tens Frame(Within 10)
and then of numbers to 10.		Numicon

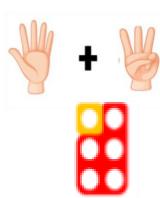
Skill	Year	Representations and models		
Add two 1-digit numbers to 10	1	Part-whole model Bar model Number shapes	Ten frames (within 10) Bead strings (10) Number tracks	
Add 1 and 2-digit numbers to 20	1	Part-whole model Bar model Number shapes Ten frames (within 20)	Bead strings (20) Number tracks Number lines (labelled) Straws	
Add three 1-digit numbers	2	Part-whole model Bar model	Ten frames (within 20) Number shapes	
Add 1 and 2-digit numbers to 100	2	Part-whole model Bar model Number lines (labelled)	Number lines (blank) Straws Hundred square	

Skill	Year	Representations and models		
Add two 2-digit numbers	2	Part-whole model Bar model Number lines (blank) Straws	Base 10 Place value counters	
Add with up to 3-digits	3	Part-whole model Bar model	Base 10 Place value counters Column addition	
Add with up to 4-digits	4	Part-whole model Bar model	Base 10 Place value counters Column addition	
Add with more than 4 digits	5	Part-whole model Bar model	Place value counters Column addition	
Add with up to 3 decimal places		Part-whole model Bar model	Place value counters Column addition	

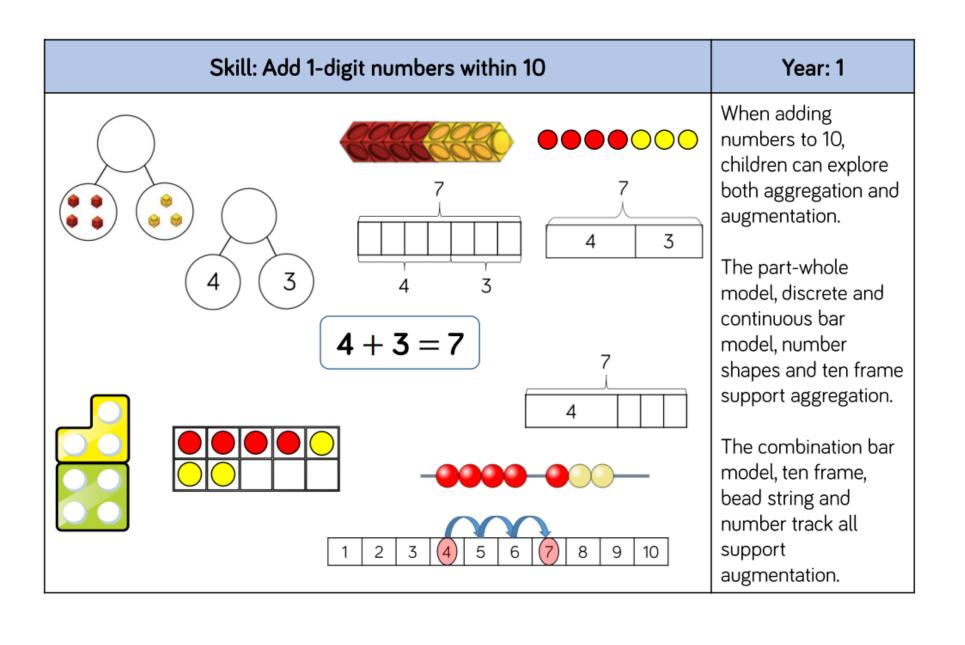
## Skill: Add single digit numbers to develop number bonds of numbers to 5 and some number bonds to 10.

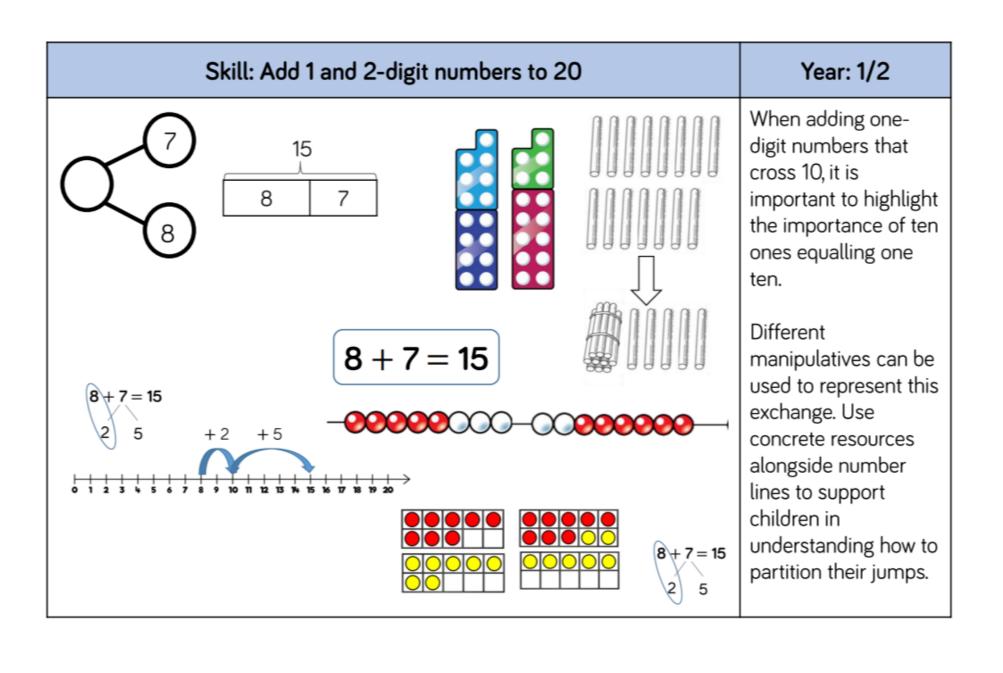
## Reception

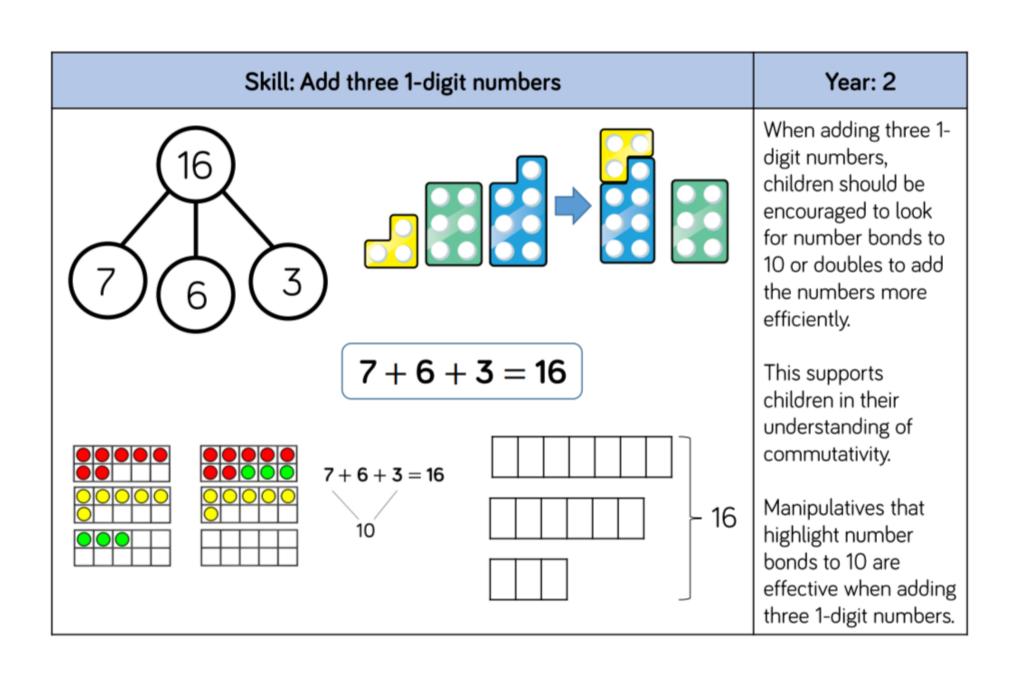


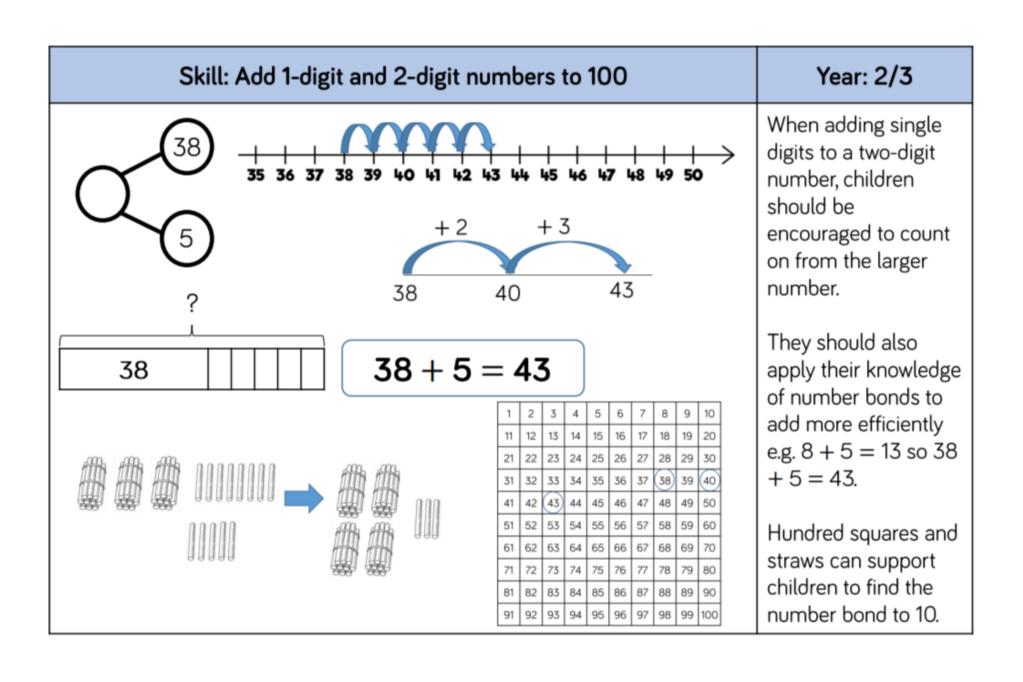


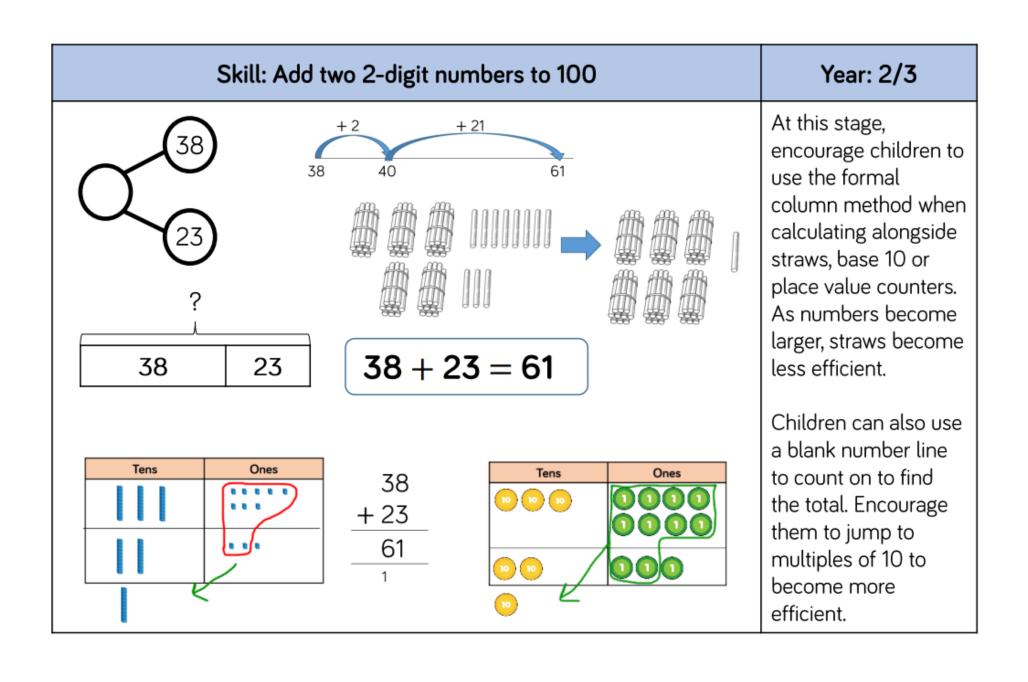
Children will use manipulatives to explore addition. Using fingers, a rekenrek and a tens frame gives children the opportunity to explore numbers within 5. They can then use these resources to develop their understanding of numbers to 10 as being made by '5 and a bit'. Numicon encourages children to visualise patterns and calculate by combining the patterns.











## Skill: Add numbers with up to 3 digits Year: 3 Base 10 and place value counters are the most effective 265 manipulatives when 265 164 adding numbers with 164 164 up to 3 digits. Ensure children write out their calculation 265 + 164 = 429alongside any concrete resources so they can see the links Hundreds Tens Ones Ones to the written column Hundreds 265 0000 method. +164.... 429 0000 Plain counters on a place value grid can also be used to support learning.

