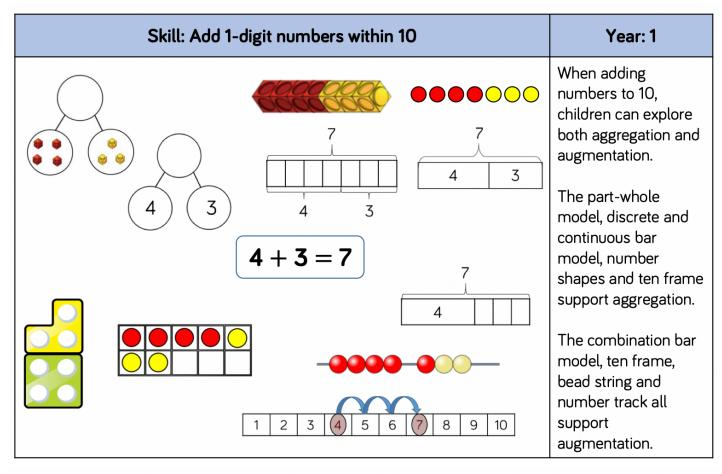


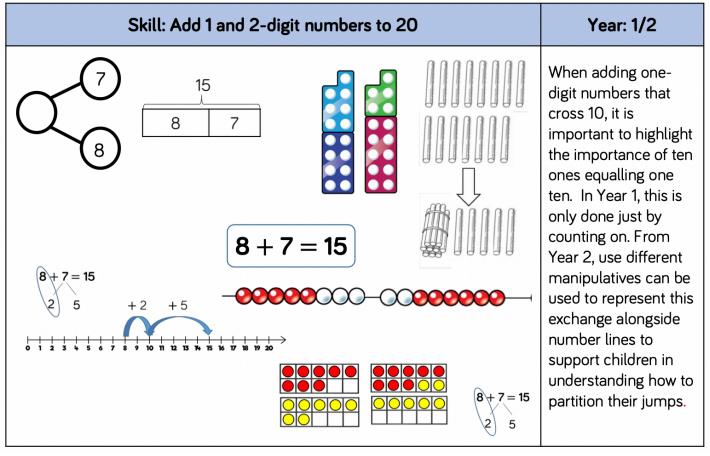
Western Primary School Maths Calculation Policy: Addition and Subtraction (based on the White Rose Maths Calculation Policy)

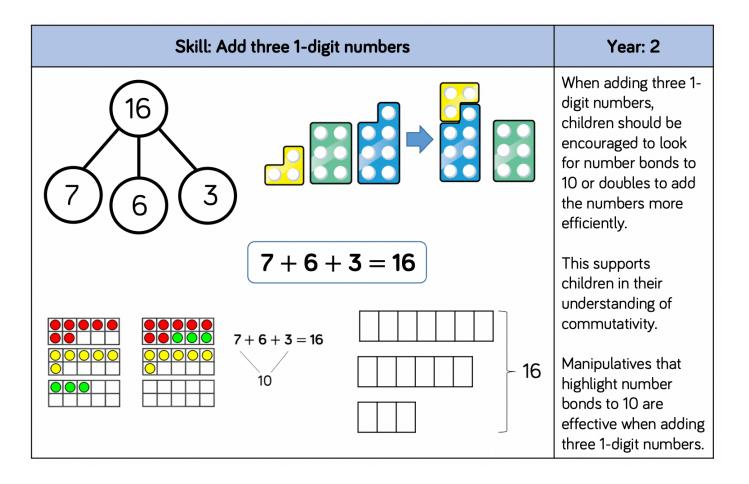
Addition

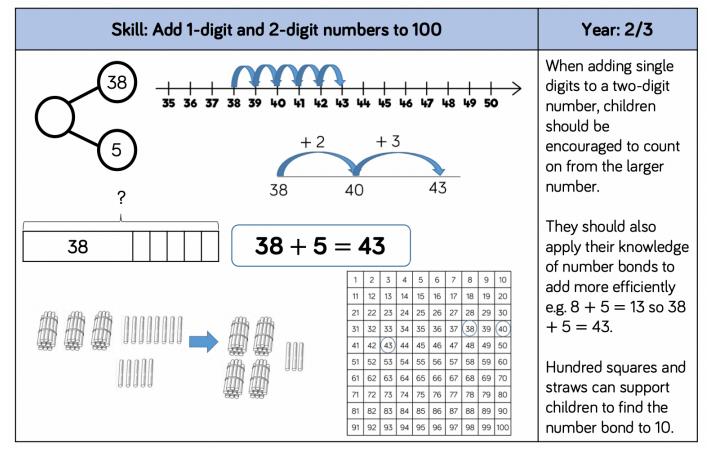
Skill	Year	Representatio	ns and models
Add two 1-digit numbers to 10	1	Part-whole model Bar model Number shapes	Ten frames (within 10) Bead strings (10) Number tracks
Add 1 and 2-digit numbers to 20	1	Part-whole model Bar model Number shapes Ten frames (within 20)	Bead strings (20) Number tracks Number 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

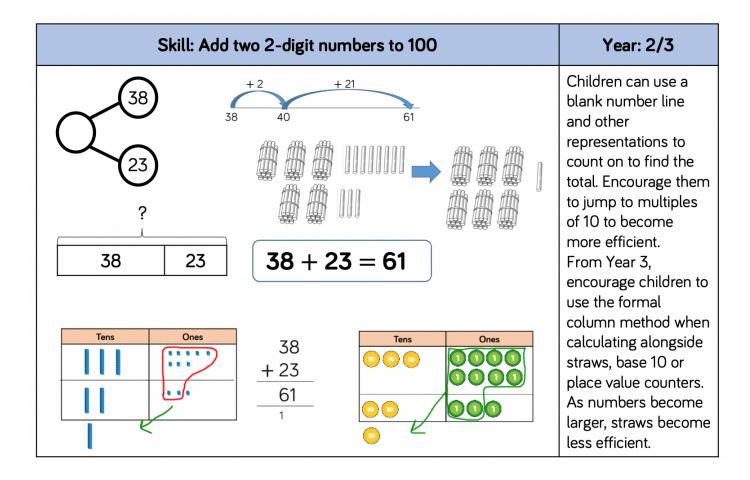
Skill	Year	Representations and models	
Add two 2-digit numbers	2	Part-whole model Bar model Number lines (blank) Straws	Base 10 Place value counters
Add with up to 3-digits	3	Part-whole model Bar model	Base 10 Place value counters Column addition
Add with up to 4-digits	4	Part-whole model Bar model	Base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

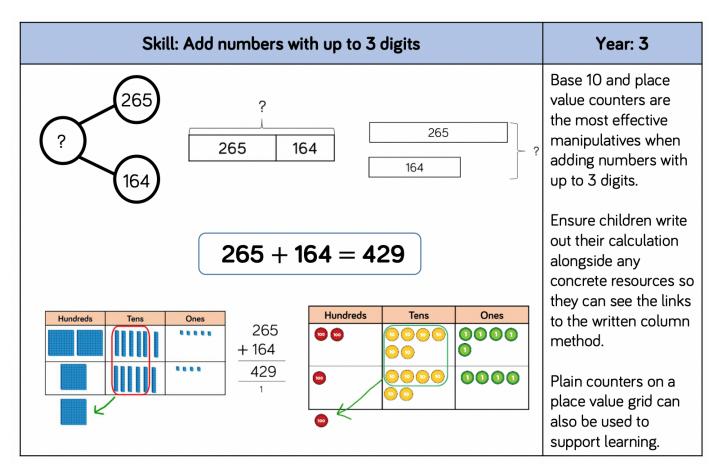


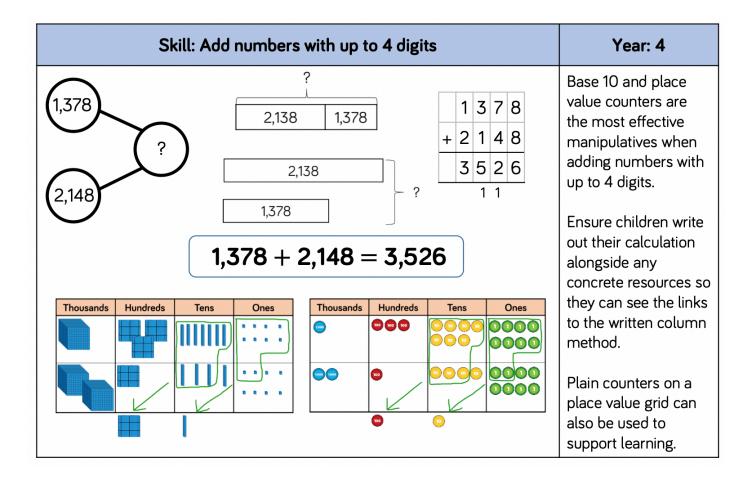


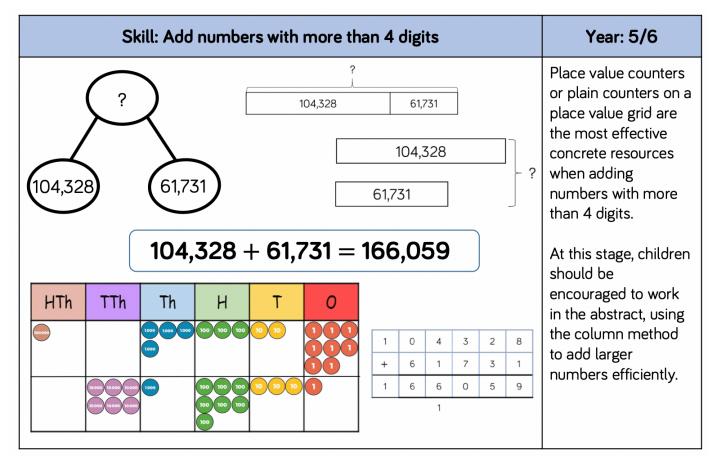


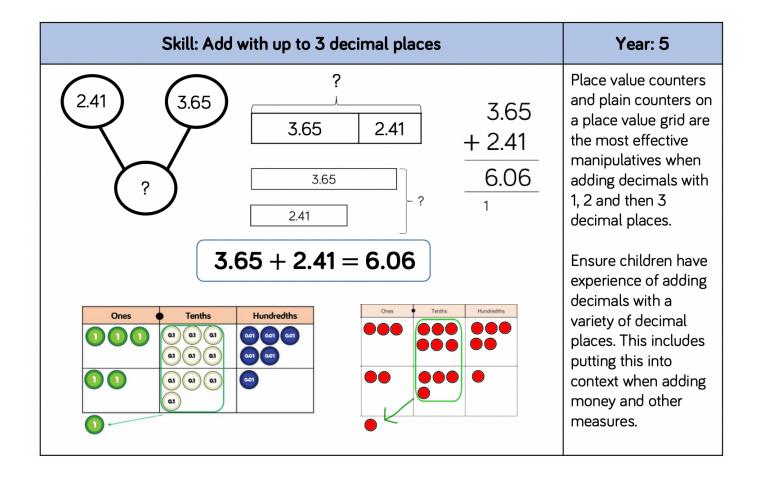








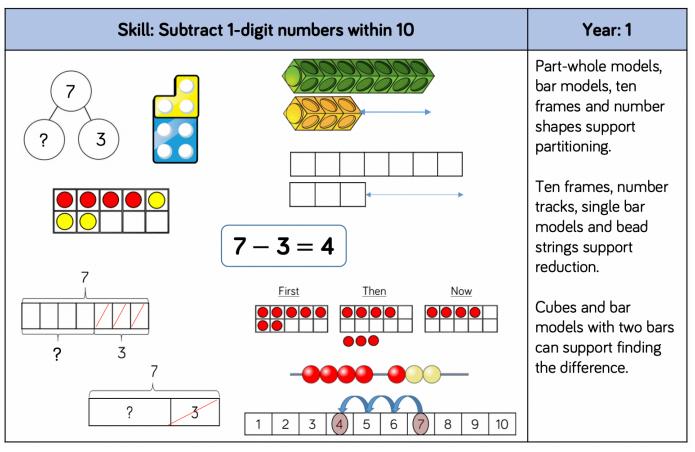


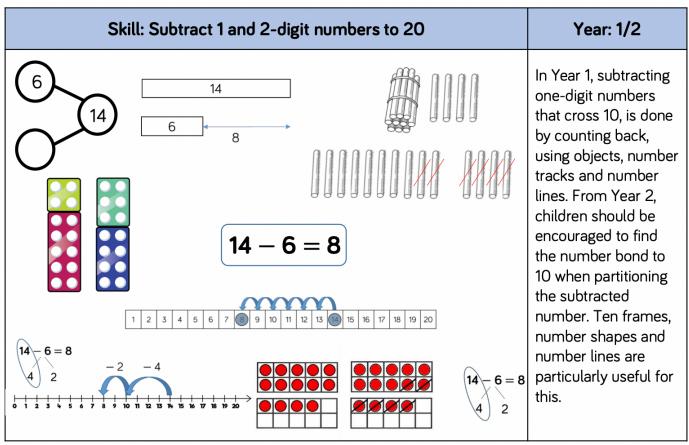


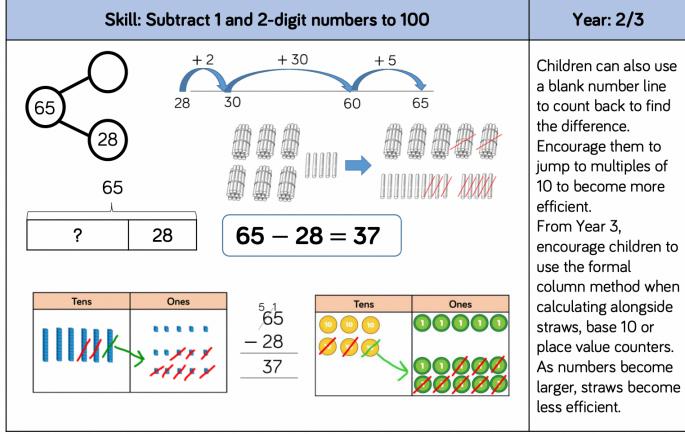
Subtraction

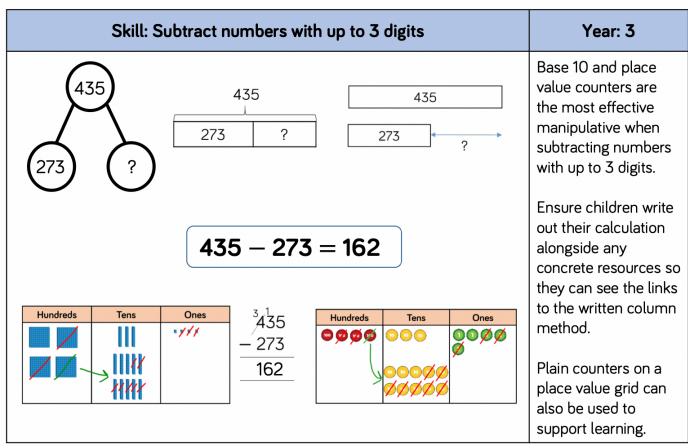
Skill	Year	Representation	ns and models
Subtract two 1-digit numbers to 10	1	Part-whole model Bar model Number shapes	Ten frames (within 10) Bead strings (10) Number tracks
Subtract 1 and 2-digit numbers to 20	1	Part-whole model Bar model Number shapes Ten frames (within 20)	Bead string (20) Number tracks Number lines (labelled) Straws
Subtract 1 and 2-digit numbers to 100	2	Part-whole model Bar model Number lines (labelled)	Number lines (blank) Straws Hundred square
Subtract two 2-digit numbers	2	Part-whole model Bar model Number lines (blank) Straws	Base 10 Place value counters

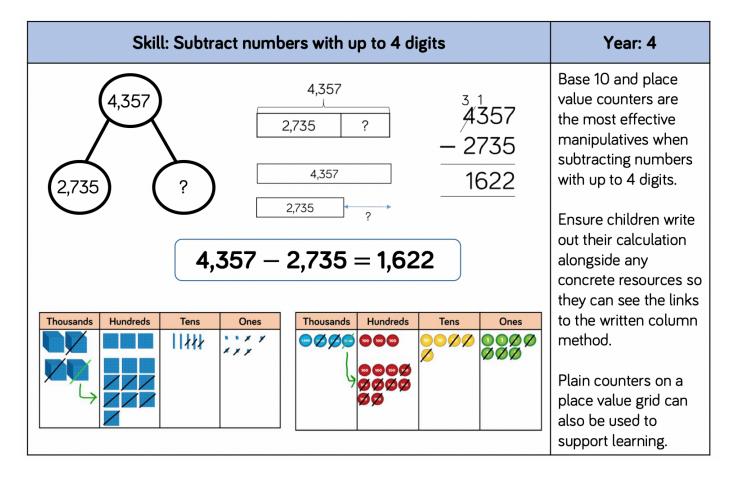
Skill	Year	Representation	ns and models
Subtract with up to 3- digits	3	Part-whole model Bar model	Base 10 Place value counters Column subtraction
Subtract with up to 4- digits	4	Part-whole model Bar model	Base 10 Place value counters Column subtraction
Subtract with more than 4 digits	5	Part-whole model Bar model	Place value counters Column subtraction
Subtract with up to 3 decimal places	5	Part-whole model Bar model	Place value counters Column subtraction

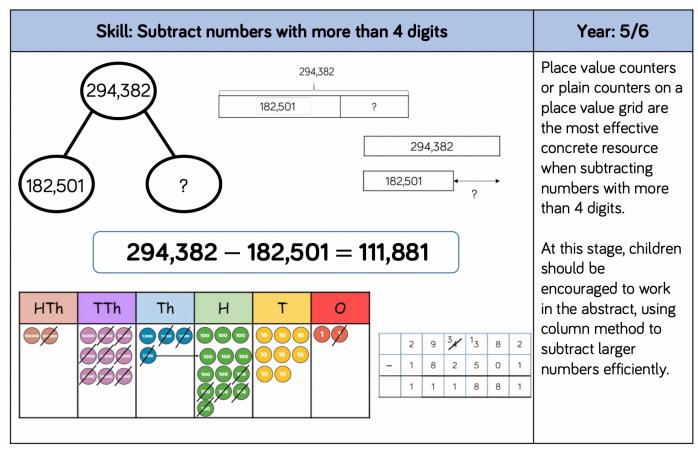


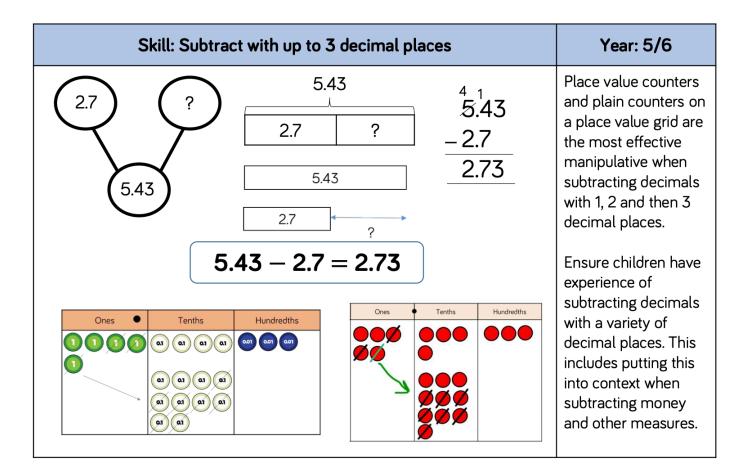












Key Vocabulary	Definition
Addend	A number to be added to another.
Aggregation	Combining two or more quantities or
	measures to find a total.
Augmentation	Increasing a quantity or measure by another quantity.
Commutative	Numbers can be added in any order.
Complement	In addition, a number and its complement make a total e.g. 300 is
	the complement to 700 to make 1,000
Difference	The numerical difference between two numbers is found by comparing
	the quantity in each group.
Exchange	Change a number or expression for another of an equal value.
Minuend	A quantity or number from which another is subtracted.
Partitioning	Splitting a number into its component parts.
Reduction	Subtraction as take away.
Subitise	Instantly recognise the number of objects in a small group without
	needing to count.
Subtrahend	A number to be subtracted from another.
Sum	The result of an addition.
Total	The aggregate or the sum found by addition