Addition and Subtraction

Stage	CDM Ref.	Small Steps
0	N/A	I can understand the compositions of 1, 2 and 3
		Partition 3
		Combine groups to make 3
		Find one more than numbers up to 3
		Take away from 3
		Find one less than numbers up to 3
		Find hidden numbers when calculating within 3
		Partition 4
		Combine groups to make 4
		Find totals up to 4 by combining groups, including the empty set
		Find one more than numbers up to 4
		Take away from 4
		Take away from numbers up to 4
		Find one less than numbers up to 4
1	1.3	Add 1 to numbers up to where I can count to
		Subtract 1 from numbers up to where I can count to
		Recognise + - and = symbols
		Use + - and = symbols
		Partition 5
		Find and represent all addition number facts of 5
		Find and represent all subtraction number facts of 5
		Partition 6
		Find and represent all addition number facts of 6
		Find and represent all subtraction number facts of 6
	1.5	Partition 7
		Find and represent all addition number facts of 7
		Find and represent all subtraction number facts of 7
		Partition 8
		Find and represent all addition number facts of 8
		Find and represent all subtraction number facts of 8
		Partition 9
		Find and represent all addition number facts of 9
		Find and represent all subtraction number facts of 9
		Partition 10
		Find and represent all addition number facts of 10
		Find and represent all subtraction number facts of 10
	1.7	Partition 11
		Find and represent all addition number facts of 11
		Find and represent all subtraction number facts of 11
		Partition 12
		Find and represent all addition number facts of 12
		Find and represent all subtraction number facts of 12
		Partition 13
		Find and represent all addition number facts of 13
		Find and represent all subtraction number facts of 13
		Partition 14
		Find and represent all addition number facts of 14
		Find and represent all subtraction number facts of 14
		Partition 15
		Find and represent all addition number facts of 15
		Find and represent all subtraction number facts of 15
		Partition 16
		Find and represent all addition number facts of 16
		Find and represent all subtraction number facts of 16
	1.9	Partition 17
		Find and represent all addition number facts of 17
		Find and represent all subtraction number facts of 17
		Partition 18
		Find and represent all addition number facts of 18
		Find and represent all subtraction number facts of 18

		Partition 19	
		Find and represent all addition number facts of 19	
		Find and represent all subtraction number facts of 19	
		Partition 20	
	1.12	Add two single digit numbers within 10	
		Add two single digit numbers bridging 10	
		Add ten and a single digit number	
		Add 9 and a single digit number	
		Subtract a single digit number from a single digit number	
		Subtract a single digit number from a 2 digit number less than 20 without bridging 10	
		Subtract a single digit number from a 2 digit number less than 20 bridging 10	
		Subtract 10 from a two digit number up to 20	
		Subtract 9 from a two digit number up to 20	
		Find the difference between two numbers	
2	2.3	Show that addition is commutative	
		Use addition facts of 10 to derive facts of 100	
		Add ones to 2-digit numbers using number facts where the tens don't change	
		Add ones to 2-digit numbers using bridging	
		Add ones to 2-digit numbers by rounding to ten then compensating	
		Add multiples of ten to 2-digit numbers using number facts	
		Add two 2-digit numbers by counting on in tens then 1s	
		Add two 2-digit numbers using partitioning and recombining (No regrouping)	
		Add two 2-digit numbers using partitioning and recombining	
		Add two 2-digit numbers by rounding to the nearest ten then compensating	
		Add three single digit numbers	
	2.4	Understand why subtraction is not commutative	
		Recall subtraction facts of two single digits within 10	
		Recall subtraction facts of 2-digit numbers (20 or less) subtract a single digit not bridging 10	
		Recall subtraction facts of 2-digit numbers (20 or less) subtract a single digit bridging 10	
		Use subtraction facts of 10 to subtract multiples of ten from 100	
		Subtract ones from 2-digit numbers using number facts where the tens don't change	
		Subtract ones from 2-digit numbers using bridging	
		Subtract ones from 2-digit numbers by rounding to ten then compensating	
		Subtract multiples of ten from 2-digit numbers using number facts	
		Subtract two 2-digit numbers by counting back in tens then 1 s	
		Subtract two 2-digit numbers by rounding to the nearest ten then compensating	
		Subtract by finding the difference between two numbers - counting on	
		Derive addition and subtraction facts using inverse operations	
3	3.4	Add ones to three-digit numbers using number facts where the tens don't change	
		Add ones to three-digit numbers using bridging	
		Add ones to three-digit numbers by rounding to ten then compensating	
		Add tens to three-digit numbers using number facts, where the hundreds don't change	
		Add tens to three-digit numbers using bridging	
		Add hundreds to three-digit numbers using number facts	
		Add 99 to three-digit numbers using rounding to the nearest hundred and then compensating	
		Add two 3-digit numbers using rounding to the nearest hundred and then compensating	
		Add two 3-digit numbers by partitioning and recombining (no regrouping)	
		Add two 2-digit numbers where the sum exceeds 100, choosing an efficient mental strategy	
	3.5	Subtract ones from three-digit numbers using number facts where the tens don't change	
		Subtract ones from three-digit numbers using bridging	
		Subtract ones from three-digit numbers by rounding to ten then compensating	
		Subtract tens from three-digit numbers using number facts where the hundreds don't change	
		Subtract tens from three-digit numbers using bridging	
		Subtract hundreds from three-digit numbers using number facts	
		Subtract from three-digit numbers using rounding and compensating	
		Subtract two 3-digit numbers using partitioning no exchanging	
		Subtract by finding the difference between two 3-digit numbers with the same hundreds digits	
		Subtract by finding the difference between two numbers with different hundreds digits	
	3.7	Use column addition for two 3-digit numbers when regrouping is required in the ones column	
		Use column addition for two 3-digit numbers when regrouping is required in the tens column	
		Use column addition for two 3-digit numbers when regrouping is required in multiple columns	
		Use column addition for 3-digit and 2-digit numbers when regrouping is required in the ones column	
		Use column addition for 3-digit and 2-digit numbers when regrouping is required in the tens column	
		Use column addition for 3-digit and 2-digit numbers when regrouping is required in multiple columns	

		Choose efficient methods to add numbers with up to 3-digits
	3.8	Use column subtraction for 3-digit numbers when exchanging is required in the tens column
		Use column subtraction for 3-digit numbers when exchanging is required in the hundreds column
		Use column subtraction for 3-digit numbers when exchanging is required in multiple columns
		Use column subtraction for 3-digit and 2-digit numbers when exchanging is required in the tens column
		Use column subtraction for 3-digit and 2-digit numbers when exchanging is required in the hundreds column
		Use column subtraction for 3-digit and 2-digit numbers when exchanging is required in multiple columns
		Choose efficient methods to subtract numbers with up to 3-digits
4	4.4	Add ones to 4-digit numbers (where the thousands change)
		Add tens to 4-digit numbers (where the hundreds change)
		Add tens to 4-digit numbers (where the thousands change)
		Add hundreds to 4-digit numbers (where the thousands change)
		Add 3-digit number to 4-digit number using rounding to the nearest hundred and then compensating
		Add two 4-digit numbers using rounding to the nearest thousand and then compensating
		Add two 3-digit numbers where the sum exceeds 1000, choosing an efficient mental strategy
	4.5	Subtract ones from 4-digit number (where the hundreds change)
		Subtract ones from 4-digit number (where the thousands change)
		Subtract tens from 4-digit number (where the hundreds change)
		Subtract tens from 4-digit number (where the thousands change)
		Subtract hundreds from 4-digit number (where the thousands change)
		Subtract 3-digit number from 4-digit number using rounding to the nearest hundred and then compensating
		Subtract 4-digit number from a 4-digit number using rounding to the nearest thousand and then compensating
		Subtract by finding the difference between two 4-digit numbers by counting on
	4.7	Add two 4-digit numbers, no regrouping
		Use column addition for two 4-digit numbers when regrouping is required in the ones column
		Use column addition for two 4-digit numbers when regrouping is required in the tens column
		Use column addition for two 4-digit numbers when regrouping is required in the hundreds column
		Use column addition for two 4-digit numbers when regrouping is required in multiple columns
		Use column addition for two 3-digit numbers where the sum exceeds 1000
		Use column addition for 4-digit and 3-digit numbers when regrouping is required in multiple columns
		Use column addition for 4-digit and 2-digit numbers when regrouping is required in multiple columns
	4.8	Subtract a 4-digit number from a 4-digit number, no exchanging
		Use column subtraction for 4-digit numbers when exchanging is required in the tens column
		Use column subtraction for 4-digit numbers when exchanging is required in the hundreds column
		Use column subtraction for 4-digit numbers when exchanging is required in the thousands column
		Use column subtraction for 4-digit numbers when exchanging is required in multiple columns
		Use column subtraction for 4-digit and 3-digit numbers when exchanging is required in multiple columns
		Use column subtraction for 4-digit and 2-digit numbers when exchanging is required in multiple columns
5	5.4	Add two whole numbers choosing an efficient mental strategy
		Subtract two whole numbers choosing an efficient mental strategy
		Use column addition for two numbers with more than 4 digits when regrouping is required in multiple columns
		Use column subtraction for two numbers with more than 4 digits when exchanging is required in multiple columns
		Use column addition for numbers with 3 decimal places when regrouping is required
		Use column addition for numbers with 1, 2 or 3 decimal places when regrouping is required
		Use column subtraction for numbers with 3 decimal places when exchanging is required
		Use column subtraction for numbers with 1, 2 or 3 decimal places when exchanging is required
		Add two decimal numbers choosing an efficient strategy
		Subtract two decimal numbers choosing an efficient strategy
6	6.8	Carry out calculations involving a mixture of addition and subtraction
		Carry out calculations involving a mixture of multiplication and addition/subtraction
		Carry out calculations involving a mixture of division and addition/subtraction
		Carry out calculations involving all four operations, including brackets
		Carry out calculations involving a mixture of addition and/or subtraction and indices