PROGRESSION MAP
Place Value (including decimals)

YR	Y1	Y2	Y3	Y4	Y5	Y6
Counting (finding 1, 10, 100 …more or less)						
count reliably up to 20 objects, including irregular arrangements of objects count to and across 20 in ones from any given number, forwards and backwards	count sets of objects reliably count to and across 100 in ones from any given number, forwards and backwards count in multiples of ten	count in tens from any number, forwards or backwards continue to count in ones, forwards and backwards	count in multiples of 10 or 100 continue to count in ones, tens or hundreds, forwards or backwards, from any 3-digit number count up and down in tenths	count backwards through zero to include negative numbers count in multiples of 10, 100 or 1000 continue to count in ones, tens, hundreds or thousands, forwards or backwards, from any 3-digit number count up and down in tenths and hundredths	interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 count up or down in tenths, hundredths and thousandths	use negative numbers in context, and calculate intervals across zero continue to count forwards or backwards in steps of powers of 10 for any given number up to 1 000000 continue to count up or down in tenths, hundredths and thousandths
say which number is one more or one less than a given number (0-20)	find one more or one less than a given number	find 1 or 10 more or less than a given 2-digit number	find 1, 10 or 100 more or less than a given number	find 1, 10, 100 or 1000 more or less than a given number add or subtract 0.1 from a number with one decimal place	add or subtract a power of 10 from any given number up to 1 000 000 add or subtract 0.1 or 0.01 from a number with up to 2 decimal places	add or subtract a power of 10 from any given number up to 10 000 000 add or subtract 0.1, 0.01 or 0.001 from a number with up to 3 decimal places
Reading and writing numbers						
recognise numerals 0 to 20	read and write numbers to 100 in numerals read and write numbers from 1 to 20 in numerals and words	read and write numbers to at least 100 in numerals and in words	read and write numbers to at least 1000 in numerals and in words begin to recognise and write decimal equivalents of any number of tenths	read and write numbers beyond 1000 recognise and write decimal equivalents of any number of tenths or hundredths	read and write numbers to at least 1000000 read and write numbers with up to three decimal places	read and write numbers to at least 10000000 continue to read and write numbers with up to three decimal places

PROGRESSION MAP
Addition

This must be viewed alongside the subtraction map so that connections can be made.

YR	Y1	Y2	Y3	Y4	Y5	Y6
Recalling number facts						
recall addition facts to 5	recall and use addition facts to 10 fluently	recall and use addition facts to 20 fluently, and derive and use related facts up to 100	continue to recall and use addition facts to 20 fluently, and derive and use related facts beyond 100 80+50	continue to use knowledge of addition facts and place value to derive related facts 800+500	continue to use knowledge of addition facts and place value to derive related facts with numbers to one decimal place 1.2 + 0.7	continue to use knowledge of addition facts and place value to derive related facts with numbers to two decimal places
know number pairs with a total of 10 6 + ?	know number pairs with a total of 20	know complements to the next multiple of 10 52+? = 60 know pairs of multiples of 10 with a total of 100	know pairs of two-digit numbers with a total of 100	know complements to the next multiple of 100 568+? = 600	know complements to 1 0.83 + 0.17 = 1 recall pairs of three-digit numbers with a total of 1000	know complements to the next whole number 7.632 + ? = 8

PROGRESSION MAP
Subtraction

This must be viewed alongside the addition map so that connections can be made.

YR	Y1	Y2	Y3	Y4	Y5	Y6
Recalling number facts						
recall subtraction facts to 5	recall and use subtraction facts to 10 fluently	recall and use subtraction facts to 20 fluently, and derive and use related facts up to 100	continue to recall and use subtraction facts to 20 fluently, and derive and use related facts beyond 100	continue to use knowledge of subtraction facts and place value to derive related facts	continue to use knowledge of subtraction facts and place value to derive related facts with numbers to one decimal place	continue to use knowledge of subtraction facts and place value to derive related facts with numbers to two decimal places
know number pairs with a total of 10 and derive related subtraction facts	know number pairs with a total of 20 and derive related subtraction facts	know complements to the next multiple of 10 know pairs of multiples of 10 with a total of 100 and derive related subtraction facts	know pairs of two-digit numbers with a total of 100 and derive related subtraction facts	know complements to the next multiple of 100	know complements to 1 recall pairs of three-digit numbers with a total of 1000 and derive related subtraction facts	know complements to the next whole number

PROGRESSION MAP
Multiplication

This must be viewed alongside the division map so that connections can be made.

YR	Y1	Y2	Y3	Y4	Y5	Y6
Recalling number facts						
begin to count in twos and tens	count in multiples of twos, fives and tens	count in steps of 2, 3, and 5 from 0	count from 0 in multiples of 4, 8, 50 and 100	count in multiples of 6, 7, 9, 25 and 1000	count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000	
know doubles of all numbers to 5	know doubles of all numbers to 10	recall doubles of all numbers to 15 and doubles of multiples of 5 to 50	recall doubles of all numbers to 20, doubles of multiples of 5 to 100 and doubles of multiples of 100 to 500	derive doubles of multiples of 50 to 1000 and multiples of 1000	derive doubles of decimals (to one decimal place) using knowledge of place value	derive doubles of decimals (to two decimal places) using knowledge of place value
	begin to recognise odd and even numbers	recall and use multiplication facts for the 2, 5 and 10 multiplication tables recognize odd and even numbers	recall and use multiplication facts for the 3, 4 and 8 multiplication tables and begin to use knowledge of place value to derive related facts	recall multiplication facts for multiplication tables up to 12 × 12, and use place value to derive related facts	continue to recall multiplication facts for multiplication tables up to 12 × 12 fluently, and derive and use related facts	continue to recall multiplication facts for multiplication tables up to 12 × 12 fluently, and derive and use related facts
				recognise and use factor pairs	identify multiples and factors, and common factors of two numbers. establish whether a number up to 100 is prime and recall primes up to 19 recognise and use square and cube numbers	identify common factors, common multiples and prime numbers continue to use square and cube numbers

PROGRESSION MAP
Division

This must be viewed alongside the multiplication/fractions map so that connections can be made.

YR	Y1	Y2	Y3	Y4	Y5	Y6
Recalling number facts						
begin to count in twos and tens	count in multiples of twos, fives and tens	count in steps of 2, 3, and 5 from 0	count from 0 in multiples of 4, 8, 50 and 100	count in multiples of 6, 7, 9, 25 and 1000	count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000	
know corresponding halves of doubles of all numbers to 5	know corresponding halves of doubles of all numbers to 10	recall corresponding halves of doubles of all numbers to 15 and doubles of multiples of 5 to 50	recall corresponding halves of doubles of all numbers to 20, doubles of multiples of 5 to 100 and doubles of multiples of 100 to 500	derive corresponding halves of doubles of multiples of 50 to 1000 and multiples of 1000	derive corresponding halves of doubles of decimals (to one decimal place) using knowledge of place value	derive corresponding halves of doubles of decimals (to two decimal places) using knowledge of place value
	begin to recognise odd and even numbers	recall and use division facts for the 2, 5 and 10 multiplication tables	recall and use division facts for the 3, 4, 8 multiplication tables and begin to use	recall division facts for multiplication tables up to 12 × 12, and use place value	continue to recall division facts for multiplication tables up to 12 × 12 fluently, and	continue to recall division facts for multiplication tables up to 12 × 12

		recognise odd and even numbers	knowledge of place value to derive related facts	to derive related facts	derive and use related facts	fluently, and derive and use related facts
				recognise and use factor pairs	identify multiples and factors, and common factors of two numbers, and primes	identify common factors, common multiples and prime numbers