Progression Document - National curriculum and 'Ready to Progress' mapping (EYFS – See NSM section)

Table 1 - National Curriculum Objectives Table 2 - Ready To Progress Criteria Table 3 - Small Steps

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
National Curriculum Objectives	count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number	count in steps of 2, 3, and 5 from 0, and in 10s from any number, forward and backward	count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number	count in multiples of 6, 7, 9, 25 and 1,000	read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit	read, write, order and compare numbers up to 10,000,000 and determine the value of each digit
	count, read and written umbers to 100 in numerals; count in multiples of 2s, 5s and 10s	recognise the place value of each digit in a two-digit number (10s, 1s)	recognise the place value of each digit in a 3-digit number (100s, 10s, 1s)	find 1,000 more or less than a given number	count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000	round any whole number to a required degree of accuracy
	given a number, identify 1 more and 1 less	identify, represent and estimate numbers using different representations, including the number line	compare and order numbers up to 1,000	count backwards through 0 to include negative numbers	interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0	use negative numbers in context, and calculate intervals across 0
	identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least	compare and order numbers from 0 up to 100; use <, > and = signs	identify, represent and estimate numbers using different representations	recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s, and 1s)	round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000	Solve number and practical problems that involve all of the above
		read and write numbers to at least 100 in numerals and in words	read and write numbers up to 1,000 in numerals and in words	order and compare numbers beyond 1,000	solve number problems and practical problems that involve all of the above	
	read and write numbers from 1 to 20 in numerals and words	use place value and number facts to solve problems	solve number problems and practical problems involving these ideas	identify, represent and estimate numbers using different representations	read Roman numerals to 1,000 (M) and recognise years written in Roman numerals	
				round any number to the nearest 10, 100 or 1,000		
				solve number and practical problems that involve all of the above and with increasingly large positive numbers		
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	Ready to Progress Criteria	Block	Steps
Year 1	1NPV-1 Count within 100, forwards and backwards, starting with any number.	Aut 1	- Count on from any number - Count backwards within 10
		Spr 1	- Count within 20
		Spr 3	- Count from 20 to 50 - Count by making groups of tens
		Sum 4	- Count from 50 to 100
	1NPV-2 Reason about the location of numbers to 20 within the linear number system, including comparing using < > and =	Aut 1	- Fewer, more, same - Less than, greater than, equal to - Compare numbers - Order objects and numbers - The number line
		Spr 1	- The number line to 20 - Use a number line to 20 - Compare numbers to 20 - Order numbers to 20
		Spr 3	- The number line to 50
Year 2	2NPV-1 Recognise the place value of each digit in two-digit numbers, and compose and decompose two-digit numbers using standard and non-standard partitioning.	Aut 1	- Recognise tens and ones - Use a place value chart - Partition numbers to 100 - Flexibly partition numbers to 100 - Write numbers in expanded form
	2NPV-2 Reason about the location of any two-digit number in the linear number system, including identifying the previous and next multiple of 10	Aut 1	- 10s on the number line to 100 - 10s and 1s on the number line to 100 - Estimate number on the number line
Year 3	3NPV-1 Know that 10 tens are equivalent to 1 hundred, and that 100 is 10 times the size of 10; apply this to identify and work out how many 10s there are in other three-digit multiples of 10	Aut 1	- Hundreds
		Aut 2	- Make connections
		Aut 3	- Multiples of 5 and 10
		Spr 2	- Equivalent lengths (m and cm) - Equivalents (cm and mm)
	3NPV-2 Recognise the place value of each digit in three-digit numbers, and compose and decompose three-digit numbers using standard and nonstandard partitioning.	Aut 1	- Represent numbers to 1,000 - Partition numbers to 1,000 - Flexible partitioning of numbers to 1,000 - Hundreds, tens and ones
	3NPV-3 Reason about the location of any three-digit number in the linear number system, including identifying the previous and next multiple of 100 and 10	Aut 1	- Find 1, 10 or 100 more or less - Number line to 1,000 - Estimate on a number line to 1,000 - Compare numbers to 1,000 - Order numbers to 1,000
	3NPV-4 Divide 100 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 100 with 2, 4, 5 and 10 equal parts.	Aut 1	- Number line to 1,000 - Estimate on a number line to 1,000 - Count in 50s
		Spri 2	- Measure in m and cm - Measure in mm - Measure in cm and mm
Year 4	4NPV-1 Know that 10 hundreds are equivalent to 1 thousand, and that 1,000 is 10 times the size of 100; apply this to identify and work out how many 100s there are in other four-digit multiples of 100	Aut 1	- Thousands
		Spr 1	- Multiply by 10 and 100 - Divide by 10 and 100
	4NPV-2 Recognise the place value of each digit in four-digit numbers, and compose and decompose four-digit numbers using standard and non-standard partitioning.	Aut 1	- Represent numbers to 10,000 - Partition numbers to 10,000 - Flexible partitioning of numbers to 10,000
	4NPV-3 Reason about the location of any four-digit number in the linear number system, including identifying the previous and next multiple of 1,000 and 100, and rounding to the nearest of each.	Aut 1	- Find 1, 10, 100, 1,000 more of less - Number line to 10,000 - Estimate on a number line to 10,000 - Compare numbers to 10,000 - Order numbers to 10,000 - Round to the nearest 10, 100, 1,000, 10,000
	4NPV-4 Divide 1,000 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 1,000 with 2, 4, 5 and 10 equal parts.	Aut 1	- Number line to 10,000 - Estimate on a number line to 10,000

	Ready to Progress Criteria	Block	Steps
Year 5	5NPV-1 Know that 10 tenths are equivalent to 1 one, and that 1 is 10 times the size of 0.1. Know that 100 hundredths are equivalent to 1 one, and that 1 is 100 times the size of 0.01. Know that 10 hundredths are equivalent to 1 tenth, and that 0.1 is 10 times the size of 0.01	Spr 3	- Decimals up to 2 decimal places
	5NPV-2 Recognise the place value of each digit in numbers with up to 2 decimal places, and compose and decompose numbers with up to 2 decimal places using standard and non-standard partitioning.	Spr 3	- Decimals up to 2 decimal places
	5NPV-3 Reason about the location of any number with up to 2 decimals places in the linear number system, including identifying the previous and next multiple of 1 and 0.1 and rounding to the nearest of each.	Spr 3	- Order and compare decimals (same number of decimal places) - Order and compare any decimals with up to 3 decimal places - Round to the nearest whole number - Round to 1 decimal place
	5NPV-4 Divide 1 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in units of 1 with 2, 4, 5 and 10 equal parts.	Spr 3	- Equivalent fractions (tenths) - Equivalent fractions (hundredths) - Equivalent fractions, decimals and percentages
	5NPV-5 Convert between units of measure, including using common decimals and fractions.	Sum 5	- Convert units of length - Convert between metric and imperial units - Convert units of time
Year 6	6NPV-1 Understand the relationship between powers of 10 from 1 hundredth to 10 million, and use this to make a given number 10, 100, 1,000, 1 tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000).	Aut 1	- Powers of 10
	6NPV-2 Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and non-standard	Aut 1	- Numbers to 1,000,000 - Numbers to 10,000,000 - Read and write numbers to 10,000,000 -
	6NPV-3 Reason about the location of any number up to 10 million, including decimal fractions, in the linear number system, and round numbers, as appropriate, including in contexts.	Aut 1	- Compare and order any integers - Round any integers
	6NPV-4 Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts.	Aut 1	- Number line to 10,000,000
		Aut 5	- Convert metric measures
		Spr 3	- Multiply by 10, 100 and 1,000 - Divide by 10, 100 and 1,000
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White Rose Maths National Curriculum Smaller Steps linked to Ready to Progress Criteria

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
PV Count	**Aut B1, Spr B1 & 3, Sum B4** • count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number • Count numbers to 100 in numerals; count in multiples of twos, fives and tens	**Aut B1** • count in steps of 2, 3 and 5 from 0, and in tens from any number, forward and backwards	**Aut B1 & B3** • count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number	**Aut B1 & B4** • count in multiples of 6, 7, 9, 25 and 1,000 • count backwards through zero to include negative numbers	**Aut B1 & B4** • count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000 • count forwards and backwards with positive and negative whole numbers, including through zero	
PV Represent	**Aut B1, Spr B1 & B4, Sum B4** • identify and represent numbers using objects and pictorial representations • read and write numbers to 100 in numerals • read and write numbers from 1 to 20 in numerals and words	**Aut B1** • read and write numbers to at least 100 in numerals and in words • identify, represent and estimate numbers using different representations, including the number line	**Aut B1** • identify, represent and estimate numbers using different representations • read and write numbers up to 1000 in numerals and in words	**Aut B1** • identify, represent and estimate numbers using different representations • read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value	**Aut B1** • read, write, (order and compare) numbers to at least 1 000 000 and determine the value of each digit • read Roman numerals to 1000 (M) and recognise years written in Roman numerals	**Aut B1** • read, write, (order and compare) numbers up to 10 000 000 and determine the value of each digit
PV Use and compare	**Aut B1, Spr B1 & B4, Sum B4** • given a number, identify one more and one less	**Aut B1** • recognise the place value of each digit in a two-digit number (tens, ones) • compare and order numbers from 0 up to 100; use and = signs	**Aut B1** • recognise the place value of each digit in a three-digit number (hundreds, tens, ones) • compare and order numbers up to 1000	**Aut B1** • find 1000 more or less than a given number • recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) • order and compare numbers beyond 1,000	**Aut B1** • (read, write) order and compare numbers to at least 1 000 000 and determine the value of each digit	**Aut B1** • (read, write), order and compare numbers up to 10 000 000 and determine the value of each digit
PV Problems / Rounding		**Aut B1** • use place value and number facts to solve problems	**Aut B1** • solve number problems and practical problems involving these ideas	**Aut B1** • round any number to the nearest 10, 100 or 1,000 • solve number and practical problems that involve all of the above and with increasingly large positive numbers	**Aut B1** • interpret negative numbers in context • round any number up to 1 000 000 to the nearest 10, 100, 1,000, 10,000 and 100,000 • solve number problems and practical problems that involve all of the above	**Aut B1** • round any whole number to a required degree of accuracy • use negative numbers in context, and calculate intervals across zero • solve number and practical problems that involve all of the above