Year 5 Number and Place Value Learning Journey

Ready to Progress
Non-statutory guidance for key skills and knowledge needed
Resources, ideas and assessment questions available in the Maths Guidance NCETM

Year 4 Prior Learning	Year 5	NCETM
Order and compare numbers beyond 1000	Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.	
✓ Order numbers beyond 1000	✓ Understand place value up to 7 digits	
✓ Compare numbers beyond 1000	✓ Order numbers up to and including 7 digits	
	✓ Read and write numbers up to and including 7 digits	
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.	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.	
Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) and compose and compose and decompose four-digit numbers using standard and non-standard partitioning	Recognise the place value of each digit in numbers with up to 2 decimal places, and compose numbers with up to 2 decimal places using standard and non-standard partitioning	
	Read, write, order and compare decimals up to 3 decimal places	
✓ Identify the place value of each digit in a four-digit number	✓ Identify the place value for each digit up to 3 decimal places	
✓ Read numbers up to and including those with four digits.	✓ Read and write numbers up to 3 decimal places	
✓ Write numbers up to and including those with four digits.	✓ Compare and order 3 decimal places	
✓ Partition 4 digit numbers in different ways	✓ Compare and order mixed decimals (up to 3 decimal places)	
	✓ Partition decimal numbers using standard and non standard ways	
Round any number to the nearest 10, 100 or 1000	Round any number to 1,000,000 to the nearest 10, 100, 1000, 10 000 and 100 000	
✓ Round 2-dgt numbers to the nearest 10	✓ Round any number to the nearest 10	
✓ Round 3-dgt numbers to the nearest 10	✓ Round any number to the nearest 100	
✓ Round 4-dgt numbers to the nearest 10	✓ Round any number to the nearest 1000	
✓ Round 3-dgt number to the nearest 100	✓ Round any number to the nearest 10,000	
✓ Round 3 and 4 digit numbers to the nearest 100	✓ Round any number to the nearest 100,000	
✓ Round 4-digit numbers to the nearest 10000		

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Reason about the location of any four-digit number in the linear system, including identifying the previous and next multiple of 1000 and 100, and rounding to the nearest of each.	Reason about the location of any number with up to 2 decimal 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.	
	Round decimals with 2 decimal places to the nearest whole number to 1 decimal place.	
	Multiply and divide whole numbers and those with decimals by 10, 100 and 1000	
	✓ Multiply whole numbers by 10, 100 and 1000	
	✓ Divide whole numbers by 10, 100 and 1000	
	✓ Multiply numbers with decimals by 10, 100 and 1000	
	✓ Divide numbers with decimals by 10, 100 and 1000	
Count in multiples of 6, 7, 9, 25 and 1000	Identify multiples and factors, including finding all factor pairs of a number and common factors of 2 numbers	
✓ Count in multiples of 6.	✓ Know and identify multiples of a number	
✓ Count in multiples of 7.	✓ Know the identity of factors of numbers	
✓ Count in multiples of 9.	✓ Find common factors of 2 numbers	
✓ Count in multiples of 25.		
✓ Count in multiples of 1000.		
	Know and use the vocabulary of prime number, prime factors and composite numbers	
	✓ Know the meaning of prime number and recall the prime numbers less than 20	
	✓ Know the prime factors of a given number	
	✓ Know how to test if a number up to 100 is prime	
	Recognise and use squared and cubed numbers and the notation	
	✓ Know and identify square numbers	
	✓ Know and identify cubed numbers	
Count backwards through zero to include negative numbers	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers including through zero.	
✓ Understand the concept of a negative number.	✓ Count forward and backward in whole number steps including negative numbers	
✓ Count backwards through zero in whole number steps.	✓ Count forward and backwards through zero	
	✓ Understand and use negative number in context, including temperatures below 0	

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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.	Read Roman numerals up to 1000 (M) and recognize year written in Roman numerals	
✓ Read Roman numerals up to C.	✓ Read Roman numerals to 1000 (M)	
✓ Understand the difference between the Roman numeral system and the decimal number system.	✓ Recognise years written in Roman numerals	
Solve number and practical problems that involve all of the above and with increasingly large positive numbers	Solve number problems and practical problems that involve all of the above	