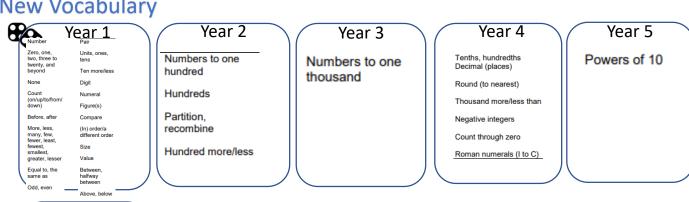
Place Value Pathway (WRM) Count, read and write numbers to 10 in numerals and words. Given a number, identify one more or one less. and backwards, beginning forwards and backwards. with 0 or 1, from any given beginning with 0 or 1, or Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, from any given number. Count, read and write Count, read and write numbers to 20 in numerals Read and write numbers to at least 100 in numbers to 100 in and words. numerals and in words. numerals. Given a number, identify one Recognise the place value of each digit in a Given a number, identify more or one less. two digit number (tens, ones) one more and one less. dentify and represent Identify, represent and estimate numbers numbers using objects and Identify and represent pictorial representations using different representations including numbers using objects and the number line. including the number line, pictorial representations and use the language of: Count to 50 forwards and backwards. including the number line, vith 0 or 1, or from any equal to, more than, less than Compare and order numbers from 0 up to and use the language of: (fewer), most, least. 100; use <, > and = signs. equal to, more than, less Count, read and write numbers to 50 in than, most, least. Use place value and number facts to solve problems. Given a number, identify one more or one less. Count in steps of 2, 3 and 5 from 0, and in tens from any number, forward and and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least. backward. Identify, represent and estimate numbers Count in multiples of twos, fives and tens using different representation Find 10 or 100 more or less than a given Recognise the place value of each digit in a three-digit number (hundreds, tens, ones). Compare and order numbers up to 1000 Count in multiples of 6, 7, 9. 25 and 1000. Read and write numbers up to 1000 in Find 1000 more or less than a given number. merals and in words cognise the place value of each digit in a four digit number ear 4 Solve number problems and practical problems involving these ideas Order and compare numbers beyond 1000 Count from 0 in multiples of 4, 8, 50 and 100 Identify, represent and estimate numbers using different representations. nd any number to the nearest 10, 100 or 1000 Read, write, order and compare numbers to at least 1000000 and determine the value of Count backwards through zero to include negative numbers. 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. ear 5 Count forwards or backwards in steps of powers of 10 for any given number up to 1000000. Read, write, order and compare numbers up to Interpret negative numbers in context, count 10,000,000 and determine forwards and backwards with positive and the value of each digit. negative whole numbers including through Round any number up to 1000000 to the Round any whole number nearest 10, 100, 1000, 10000 and 100000 to a required degree of accuracy. Solve number problems and practical problems that involve all of the above. Year 6 镠 Use negative numbers in Read Roman numerals to 1000 (M) and context, and calculate recognise years written in Roman numerals. intervals across zero. Solve number and practical problems that

New Vocabulary

involve all of the above.

Count to ten, forwards and backwards, beginning with 0 or 1,

or from any given number



Year 6

Numbers to ten million

Addition, Subtraction, multiplication and division and use multiplication and division facts for the 2,5 and 10 times tables, including recognising odd and even numbers. Pathway (WRM) using materials, arrays, repeated addition, mental methods and multiplication Read, write and interpret mathematical stateme addition (+), subtraction (-) and equals (=) signs. and division facts, including problems in contexts. ct one digit numbers to 10, in and division within the multiplication tables and write them using the of two numbers can be done multiplication (s), division (i) in any order (commutative) and equals (ii) signs. Year 1 of two numbers can be done Show that the addition of two numbers can be done in any order [commutative] and subtraction of one number from another cannot Represent and use number bonds and refacts within 20 Add and subtract one-digit and two-digit numbers to 20, and use the inverse relationship between addition and an and use this to check calculations and solve missing numbe Add and subtract numbers mentally, including: a three-digit number and ones; a three-digit number and tens; a three digit number and hundreds. Count in multiples of twos, fives and tens. Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. Solve one step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support Write and calculate mathematical stat for multiplication and division using the multiplication tables they know, including for two-digit numbers times one-digit numbers, Year 3 two-digit numbers times one-digit num using mental and progressing to formal written methods. of the teacher. Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m Count from 0 in multiples of 4, 8, 50 and 100 Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. Write and calculate mathematical statements for Recall and use multiplication and division facts for multiplication tables up to 12 × 12. Count in multiples of 6, 7, 9. 25 and 1000 Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems which n objects are connected to m objectives. Year 4 ubtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction w nar addition and subtraction where Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects. Year 5 Estimate and use inverse operations to check answers to a calculation. Add and subtract numbers mentally with increasingly Solve addition and Solve addition and subtraction two step Multiply two digit and three digit numbers by a one digit number using formal written problems in contexts, deciding which operations and methods to use and why subtraction multi-step Add and subtract whole numbers with more than 4 digits, including using formal Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects. deciding which operations and methods to use and written methods (columnar why. addition and subtraction) Use rounding to check answers to calculations and determine, in the context of a problem, levels of Year 6 Identify multiples and factors, including finding all factor pairs of a number, and common factors of Multiply numbers up to 4 digits by a or two digit number using a formal written method, including long multiplication for 2 digit numbers. Divide numbers up to 4 digits by a one digit number using the formal written method of short division and interpret remainders appropriately for the context. Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes. Perform mental calculations, including with mixed operations and Solve problems involving addition and subtraction, multiplication and division and a combination of these, including understanding the use of the equals sign. Identify common factors, common multiples and prime numbers. Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers. Use their knowledge of the order of operations to carry out calculations involving the four operations. Divide numbers up to 4 digits by a 2-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding as appropriate for the context. Establish whether a number of 100 is prime and recall prime numbers up to 19 olve problems involving addition, subtraction, multiplication and Divide numbers up to 4 digits by a 2-digit number using the formal written method of short division, interpreting remainders according to the context. New Vocabulary Year 3 Year 4 Year 5 Year 1 + 2 Array, row, how much Multiplication Column addition more is..? Count in twos, threes, fives facts (up to Double, halve Composite and subtraction Subtract, 12x12) Share, share equally numbers, prime take away, Product minus number, prime Group in pairs, threes, etc. factors, square Division facts How many Lots of, groups Multiples of four, number, cubed fewer is...than..?, Equal groups of Equals, is the same as (including equals sign) eight, fifty and number Inverse how much less is..? Divide, divided by, left, left over one hundred Formal written Derive Scale up Year 6

Order of operations

Common

multiples

factors, common

