



Number – number and place value	Number – addition and subtraction	Number – multiplication and division
▶ Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000. ▶ Count forwards and backwards in decimal steps. ▶ 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 with up to 3 decimal places. ▶ Identify the value of each digit to three decimal places. ▶ Identify represent and estimate numbers using the number line. ▶ Find 0.01, 0.1, 1, 10, 100, 100 and other powers of 10 more or less than a given number. ▶ Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000. ▶ Round decimals with two decimal places to the nearest whole number and to one decimal place. ▶ Multiply/divide whole numbers and decimals by 10, 100 and 1000. ▶ Interpret negative numbers in context, count on and back with positive and negative whole numbers, including through zero. ▶ Describe and extend number sequences including those with multiplication/division steps and where the step size is a decimal. ▶ Read Roman numerals to 1000 (M); recognise years written as such. ▶ Solve number and practical problems that involve all of the above.	▶ Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method). ▶ Select a mental strategy appropriate for the numbers involved in the calculation. ▶ Recall and use addition and subtraction facts for 1 and 10 (with decimal numbers to one decimal place). ▶ Derive and use addition and subtraction facts for 1 (with decimal numbers to two decimal places). ▶ Add and subtract numbers mentally with increasingly large numbers and decimals to two decimal places. ▶ Add and subtract whole numbers with more than 4 digits and decimals with two decimal places, including using formal written methods (columnar addition and subtraction). ▶ Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. ▶ Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. ▶ Solve addition and subtraction problems involving missing numbers.	▶ Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method). ▶ Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. ▶ Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers. ▶ Establish whether a number up to 100 is prime and recall prime numbers up to 19. ▶ Recognise and use square (2) and cube (3) numbers, and notation. ▶ Use partitioning to double or halve any number, including decimals to two decimal places. ▶ Multiply and divide numbers mentally drawing upon known facts. ▶ Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes. ▶ Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-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. ▶ Use estimation/inverse to check answers to calculations; determine, in the context of a problem, an appropriate degree of accuracy. ▶ Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign. ▶ Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.