Arithmetic Coverage Years 1-6

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Add and subtract one-digit and two-digit numbers to 20 including zero Give a number, identify one more and one less. Represent and use number bonds and related subtraction facts within 20 Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7= [ ] -9 Recognise, find and name a half as one of two equal parts of an object, shape or quantity Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity	Add and subtract one-digit and two-digit numbers to 20 including zero Give a number, identify one more and one less. Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers. Add and subtract numbers using concrete objects, pictorial representations and mentally for a two-digit number and ones Add and subtract numbers using concrete objects, pictorial representations and mentally for a two-digit number and tens Recognise, find and name a half as one of two equal parts of an object, shape or quantity Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity Add and subtract numbers using concrete objects, pictorial representations and mentally for two-digit numbers Recognise and use inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems Recall and use addition and subtraction facts to 20 fluently and derive and use related facts up to 100 Recognise, find, name and write fractions 1/3, ¼, 2/4 and ¾ of length, shape, set of objects or quantity Count in steps of 2,3 and 5 from 0, and in tens from any number, forward and backward	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 Add and subtract numbers using concrete objects, pictorial representations and mentally for a two-digit number and ones Add and subtract numbers using concrete objects, pictorial representations and mentally for a two-digit number and tens Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers. Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number Add and subtract numbers mentally, including a three-digit number and ones Add and subtract numbers mentally, including a three-digit number and tens Add and subtract numbers mentally, including a three-digit number and hundreds Add and subtract numbers with up to three-digits, using formal written methods of columnar addition and subtraction Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers. Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables Add and subtract numbers using concrete objects, pictorial representations and mentally for two-digit numbers Recognise, find, name and write fractions 1/3, ¼, 2/4 and ¾ of length, shape, set of objects or quantity Recognise and use fractions as numbers: unit fractions and non-unit fraction s with small denominators Recognise, find and write fractions of a discrete set of objects: unit fractions and on-unit fractions with small denominators	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number Add and subtract numbers with up to three-digits, using formal written methods of columnar addition and subtraction Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables Find 1000 more or less than a given number Add and subtract numbers with up to 4 digits, using the formal written methods of columnar addition and subtraction where appropriate Recall multiplication and division facts for multiplication tables up to 12 x 12 Add and subtract numbers mentally, including a three-digit number and ones Add and subtract numbers mentally, including a three-digit number and tens Add and subtract numbers mentally, including a three-digit number and hundreds Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables Recognise, find and write fractions of a discrete set of objects: unit fractions and on-unit fractions with small denominators Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers Add and subtract fraction with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7] Multiply two-digit and three-digit numbers by a one-digit number using a formal written layout Compare numbers with the same number of decimal places up to two decimal paces	Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number Add and subtract numbers mentally, including a three-digit number and ones Add and subtract numbers mentally, including a three-digit number and tens Add and subtract numbers mentally, including a three-digit number and hundreds Add and subtract numbers with up to three-digits, using formal written methods of columnar addition and subtraction Find 1000 more or less than a given number Add and subtract numbers with up to 4 digits, using the formal written methods of columnar addition and subtraction where appropriate Recall multiplication and division facts for multiplication tables up to 12 x 12 Add and subtract numbers mentally with increasingly large numbers Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers Multiply two-digit and three-digit numbers by a one-digit number using a formal written layout Add and subtract fractions with the same denominator that are multiples of the same number Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction Recognise, find and write fractions of a discrete set of objects: unit fractions and on-unit fractions with small denominators	Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number Add and subtract numbers mentally, including a three-digit number and ones Add and subtract numbers mentally, including a three-digit number and tens Add and subtract numbers mentally, including a three-digit number and hundreds Add and subtract numbers with up to three-digits, using formal written methods of columnar addition and subtraction Add and subtract fraction with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7] Find 1000 more or less than a given number Add and subtract numbers with up to 4 digits, using the formal written methods of columnar addition and subtraction where appropriate Recall multiplication and division facts for multiplication tables up to 12 x 12 Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers Multiply two-digit and three-digit numbers by a one-digit number using a formal written layout Add and subtract fractions with the same denominator Compare numbers with the same number of decimal places up to two decimal paces Add and subtract numbers mentally with increasingly large numbers Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) Multiply and divide numbers mentally drawing upon known facts Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000

		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 objects Add and subtract fraction with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7] Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.	Find the effect of dividing a one or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths 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 objects Count in multiples of 6, 7, 9, 25 and 1000	Multiply two-digit and three-digit numbers by a one-digit number using a formal written layout Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) Multiply and divide numbers mentally drawing upon known facts Multiply numbers up to 4 digits by one or two-digit number using a formal written, including long multiplication for two-digit numbers Read, write, order and compare numbers with up to three decimal places Solve problems involving number up to three decimal places 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 Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams 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 objects Read and write decimal numbers as fractions (for example, 0.71=71/100)	Multiply numbers up to 4 digits by one or two-digit number using a formal written, 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 Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context Divide numbers up to 4 digits by a two-digit whole number using the formal written method of short/long division and interpret remainders as whole numbers remainders, fractions, or by rounding as appropriate for the context Use written division methods in cases where the answer has up to two decimal places Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) Add and subtract fractions with the same denominator that are multiples of the same number Read, write, order and compare numbers with up to three decimal places Use their knowledge of the order of operations to carry out calculations involving the four operations Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions Multiply multi-digit numbers by a two-digit whole number using the formal written method of long multiplication 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 objects Recognise and use fractions as numbers: unit fractions and non-unit fraction s with small denominators Multiply two-digit and three-digit numbers by a one-digit number using a formal written layout

					Multiply one-digit numbers with up to two decimal places by whole numbers Solve problems involving number up to three decimal places Multiply simple pairs of proper fractions, writing the answer in its simplest form (for example, ¼ x ½ = 1/8) Divide proper fractions by whole numbers (for example 1/3÷2=1/6) Read and write decimal numbers as fractions (for example, 0.71=71/100) Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places. Solve problems involving the calculation of percentages (for example, of measures, and such as 15% of 360) and the use of percentages for comparison