Key Skills

Year Group	Number and Place Value	Addition and Subtraction	Multiplication and Division	Fractions	Geometry
1	-Count to and across 100 forwards and backwards -Count in multiples of 2, 5, 10 -Read and write numbers to 20/50/100 in numerals -Identify odd and even numbers linked to counting in 2 starting from 0 and 1	-Read, write and interpret mathematical symbols -Represent and use number bonds to 10 -Add and subtract one digit numbers to 10 including 0 -Solve one step problems involving addition and subtraction to 10		-Know a fraction is less than 1 whole – it is a part of something.	-Recognise and name 2D and 3D shapes
2	-Recognise the place value of each digit in a two digit number (tens and ones) -Partition numbers to 100 in different ways -Compare and order numbers to 100 using <>= -Find 1 or 10 more/less than a number to 100	-Recall and use addition and subtraction facts to 10 fluently (without fingers) and derive and use related facts to 20/100. -+/- bridging 10 with numbers to 20 -Know subtract as difference -Add and subtract a two digit number and ones, a two digit number and tens and two two digit numbers.	-Understand multiplication as repeated addition -Understand division as sharing and grouping including with reminders. -Recall and use multiplication facts (Rolling numbers) and recognise odd and even numbers. -Calculate multiplication and division statements using the correct symbols	-Know $\frac{1}{2}$ is something split into 2 equally.	-Identify and describe properties of 2D and 3D shapes and identify 2D shapes on the surface of 3D shapes.
3	-Identify, represent and estimate numbers using different representations including the numberline. -Recognise the place value of each digit in a 3 digit number. -Partition 3 digit numbers in different ways. -Find 1, 10, 100 more/less than a number. -Know 10 tens = 1 hundred. -Divide 100 into 2, 4, 5 and 10.	-Understand and use take away and difference for subtraction. -Recall addition/subtraction facts to 10 as well as multiples of 10 to 100. -Add/subtract bridging 10. -Add/subtract up to three digits using formal methods. -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 2, 5, 10, 3, 4, 8 tables. -Solve problems including multiplication and division including remainders. -Scale by 10 with multiplication and division.	-Recognise and find fractions – unit and non-unit with small denominators $\frac{1}{2}$, $\frac{1}{4}$, 1/3 $\frac{3}{4}$. -Add and subtract fractions with the same denominator. -Compare and order fractions including on a number line.	-Draw 2D and make 3D shapes -Recognise angles as a turn. -Identify right angles and recognise two right angles make a half turn etc. -Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.
4	-Identify, represent and estimate numbers using different representations including the numberline. -Recognise the place value of each digit in a 4 digit number. -Partition 4 digit numbers in different ways. -Find 1, 10, 100, 1000 more/less than a number. -Know 10 hundreds= 1 thousand -Work out how many hundreds there are in other numbers e.g. saying 1500 as 15 hundred. -Divide 1000 into 2, 4, 5 and 10.	-Recall and use addition and subtraction facts for 100. -Recall and use addition and subtraction facts for multiples of 100 to 1000. -Add/subtract up to 4 digits using formal methods.	-Multiply and divide by 10/100 -Scale by 100 -Recall 12 x 12 multiplication tables and related division facts -Divide numbers with up to 2 digits and interpret remainders -Solve problems with multiplying and dividing using the distributive law, integer scaling and correspondence. -Multiply numbers up to 4 digits by one digit using formal written methods.	-Add and subtract fractions with the same denominator. -Compare and order fractions including on a number line. -Convert mixed numbers to improper fractions. -Add/subtract mixed fractions with the same denominator bridging whole numbers.	-Compare and classify shapes. -Identify lines of symmetry and complete symmetric figures. -Describe positions on a 2D grid as coordinates. -Plot points on a grid and describe movements as translations. **Measurement** -Find perimeter of polygons.

5	-Identify, represent and estimate numbers using different representations including the numberline. -Recognise the place value of each digit in a 5 digit number. -Partition 5 digit numbers in different ways. -Identify the value of each digit to 2 decimal places. -Find 0.01, 0.1, 1, 10, 100, 1000 and other powers of 10 more or less than a given number. -Round decimals with two decimal places to the nearest whole number to one decimal place. -Find 1, 10, 100, 1000 more/less than a number. -Know 10 tenths = 1 whole -Know 100 hundredths = 1 whole -Know 10 hundredths = 1 tenth -Partition decimlas using standard and non standard partitioning -Divide 1 into 2, 4, 5 and 10 parts.	-Add/subtract up to 5 digits using formal methods.	-Identify multiples and factors including finding factor pairs and common factors. -Multiply and divide numbers mentally using known facts. -Multiply numbers with up to 4 digits by two numbers using formal written methods. -Divide numbers up to 4 digits using formal methods and interpret renmainders. -Solve problems involving multiplication and division including scaling by simple fractions.	-Identify, name and write equivalent fractions of a given fraction -Recognise and use thousandths and relate them to tenths and hundredths and decimal equivalents. -Solve problems using percentage, decimals and fractions. -Find non unit fractions of amounts.	-Know angles are measured in degrees and estimate them. -Draw angles and measure them in degrees. -Identify and compare angles. **Measurement** -Convert between units of metric measures. -Calculate and compare the area of shapes (regular and irregular).
6	-Identify, represent and estimate numbers using different representations including the numberline. -Recognise the place value of each digit in an 8 digit number. -Partition 8 digit numbers in different ways. -Identify the value of each digit to 3 decimal places. -Find 0.001, 0.01, 0.1, 1, 10, 100, 1000 and other powers of 10 more or less than a given number. -Round decimals with three decimal places to the nearest whole number to one decimal place. -Understand the relationship between powers of 10.	-Choose an appropriate strategy to solve a calculation (use known fact, mental strategy, jotting of written method) -Solve problems involving 4 operations including missing numbers.	-Divide numbers with up to 4 digits using formal written methods and long division, interpreting remainders as fractions or rounding as appropriate. -Use knowledge of order of operations to carry out calculations.	-Compare and order fractions including fractions >1 on a numberline. -Use common factors to simplify fractions and common multiples to express fractions in the same denomination. -Recall and use equivalences between simple fractions, decimals and percentages including different contexts. **Ratio** -Solve problems involving relative sizes of two quantities, unequal sharing/grouping and shapes.	-Draw 2D shapes using given dimensions. -Recognise, describe and build 3D shapes -Find unknown angles in shapes. **Alegbra** -Find pairs of numbers that satisfy an equation with two unknowns. **Measurement** -Recognise shapes with the same areas can have different perimeters and vice versa. -Calculate areas of parallelograms and triangles.