## Year 5 Maths Checklist

Number — Number and Place Value I can:	multiply and divide numbers mentally drawing upon known facts	solve problems involving number up to three decimal	draw given angles, and measure them in degrees (o)
read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit	divide numbers up to 4 digits by a one-digit number using the formal written method of short division and	recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and	identify angles at a point and one whole turn (total 360o) identify angles at a point on a straight line and half
count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000	interpret remainders appropriately for the context  multiply and divide whole numbers and those	write percentages as a fraction with denominator 100, and as a decimal	a turn (total 180o)  identify other multiples of 90o
interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000	involving decimals by 10, 100 and 1000  recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)  solve problems involving multiplication and division including using their knowledge of factors and	<ul> <li>solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5, and those fractions with a denominator of a multiple of 10 or 25.</li> </ul>	Geometry — Position and Direction  I can:  identify, describe and represent the position of a shape following a reflection or translation, using
<ul> <li>solve number problems and practical problems that involve all of the above</li> </ul>	multiples, squares and cubes  solve problems involving addition, subtraction,	Measurement I can:	the appropriate language, and know that the shape has not changed.
read Roman numerals to 1000 (M) and recognise years written in Roman numerals.	multiplication and division and a combination of these, including understanding the meaning of the equals sign	convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre	Statistics I can:
Number – Addition and Subtraction I can:	<ul> <li>solve problems involving multiplication and division, including scaling by simple fractions and problems</li> </ul>	and millilitre)  understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints  measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres  calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes  estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity [for example, using water]  solve problems involving converting between units of time use all four operations to solve problems involving measure	<ul> <li>solve comparison, sum and difference problems using information presented in a line graph</li> <li>complete, read and interpret information in tables, including timetables.</li> </ul>
<ul> <li>add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)</li> </ul>	involving simple rates.  Number — Fractions I can:		
<ul> <li>add and subtract numbers mentally with increasingly large numbers</li> </ul>	compare and order fractions whose denominators are all multiples of the same number		
use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy	<ul> <li>identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths</li> </ul>		
<ul> <li>solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</li> </ul>	recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, 2/5 + 4/5 = 6/5 = 1 1/5]		
Number – Multiplication and Division  I can:  identify multiples and factors, including finding all	add and subtract fractions with the same denominator and denominators that are multiples of the same number multiply proper fractions and mixed numbers by whole	[for example, length, mass, volume, money] using decimal notation, including scaling.	
factor pairs of a number, and common factors of two numbers	numbers, supported by materials and diagrams  read and write decimal numbers as fractions	Geometry — Properties of Shapes I can:	
know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers	[for example, 0.71 = 71/100]  recognise and use thousandths and relate them to	<ul> <li>identify 3-D shapes, including cubes and other cuboids, from 2-D representations</li> </ul>	
establish whether a number up to 100 is prime and recall prime numbers up to 19	tenths, hundredths and decimal equivalents  round decimals with two decimal places to the nearest	<ul> <li>use the properties of rectangles to deduce related facts and find missing lengths and angles</li> </ul>	
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	whole number and to one decimal place read, write, order and compare numbers with up to three decimal places	<ul> <li>distinguish between regular and irregular polygons based on reasoning about equal sides and angles.</li> <li>know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles</li> </ul>	