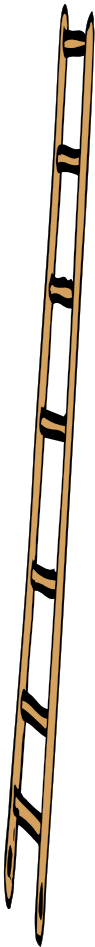# Maths Assessment – Band 5   Name/s _____

	Number & Place Value	Addition & Subtraction	Multiplication & Division	Fractions (decimals & percentages)	Measurement	Properties of Shape	Position and Direction	Statistics
Band 5	• I can read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit • I can count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000 • I can interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0 • I can round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000 • Ma5/2.1e solve number problems and practical problems that involve all of the above • I can read Roman numerals to 1,000 (M) and recognise years written in Roman numerals.	• I can add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) • I can add and subtract numbers mentally with increasingly large numbers • I can use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy • I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.	• I can identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. • I know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers • I can establish whether a number up to 100 is prime and recall prime numbers up to 19 • I can 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 • I can multiply and divide numbers mentally drawing upon known facts • I can 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 • I can multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000 • I can recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) • Ma5/2.3i solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes • I can solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign • I can solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.	• I can compare and order fractions whose denominators are all multiples of the same number • I can identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths • I can recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number • I can add and subtract fractions with the same denominator and denominators that are multiples of the same number • I can multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams • I can read and write decimal numbers as fractions • I can recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents • I can round decimals with 2 decimal places to the nearest whole number and to 1 decimal place • I can read, write, order and compare numbers with up to 3 decimal places • I can solve problems involving number up to 3 decimal places • I can recognise the per cent symbol (%) and understand that per cent relates to "number of parts per 100", and write percentages as a fraction with denominator 100, and as a decimal fraction • I can solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and fractions with a denominator of a multiple of 10 or 25.	• I can convert between different units of metric measure • I can understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints • I can measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres • I can calculate and compare the area of rectangles (including squares) including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes • I can estimate volume and capacity • I can solve problems involving converting between units of time • I can use all four operations to solve problems involving measure using decimal notation including scaling.	• I can identify 3-D shapes, including cubes and other cuboids, from 2-D representations • I know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles • I can draw given angles, and measure them in degrees (°) • I can identify: * angles at a point and 1 whole turn (total 360°) * angles at a point on a straight line and half a turn (total 180°) * other multiples of 90° • I can use the properties of rectangles to deduce related facts and find missing lengths and angles • I can distinguish between regular and irregular polygons based on reasoning about equal sides and angles.	• I can identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.	• I can solve comparison, sum and difference problems using information presented in a line graph • I can complete, read and interpret information in tables, including timetables.