

YEAR 5 MATHS: NUMBER AND PLACE VALUE	SKILL		
Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit			
Count forwards or backwards in steps of 10 for any given number up to 1 000 000			
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			
Solve number problems and practical problems that involve all of the above			
Read Roman numerals to 1000 (M) and recognise years written in Roman numerals			
MATHS: ADDITION AND SUBTRACTION			
Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)			
Add and subtract numbers mentally with increasingly large numbers			
Use rounding to check answers to calculations and determine levels of accuracy			
Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why			
MATHS: MULTIPLICATION AND DIVISION			
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			
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			
Multiply and divide numbers mentally drawing upon known facts			
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 and divide whole numbers and those involving decimals by 10, 100 and 1000			
Recognise and use square numbers and cube numbers, and the notation $(^2)$ and $(^3)$			
Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes			
Solve problems involving addition, subtraction, multiplication and division and a combination of these, using formal methods including understanding the meaning of the equals sign Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.			
NUMBER: FRACTIONS, DECIMALS and PERCENTAGES			
Compare and order fractions whose denominators are all multiples of same number			
Identify, name, write equivalent fractions of a given fraction, inc $1/10$ and $1/100$			
Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number			
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 numbers, supported by materials and diagrams			
Read and write decimal numbers as fractions [for example, $0.71 = 71/100$]			
Recognise / use thousandths, relate them to tenths, hundredths, decimal equivalents			
Round decimals with 2 decimal places to nearest whole and to 1 decimal place			
Read, write, order and compare numbers with up to three decimal places			
Solve problems involving number up to three decimal places			
Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction and as a decimal			
Solve problems which require knowing percentage and decimal equivalents of			

MATHS: MEASUREMENT: SHAPE		SKILL		
Convert between different units of metric measure, e.g. convert 0.05km into m and then cm)				
Understand and use approximate equivalences between metric units and common imperial units such as inches				
Measure and calculate the perimeter of composite rectilinear shapes in centimeters and metres using a simple formula.				
Calculate and compare the area of rectangles (including squares) using a simple formula; L. W and including using standard units, square centimeters (cm ²) and square metres (m ²) and estimate the area of irregular shapes				
MATHS: MEASUREMENT: MASS, WEIGHT				
Convert between different units of metric measure (for example, gram and kilogram)				
Understand / use approximate equivalences between metric and imperial units				
MATHS: MEASUREMENT: CAPACITY AND VOLUME				
Convert between different units of metric measure (for example, litre and millilitre) estimating the volume using 1cm ³ Estimate volume – e.g. using 1 cm ³ blocks to build cuboids and capacity – e.g. water				
Understand and use approximate equivalences between metric units and common imperial units such as pints				
MATHS: MEASUREMENT: TIME				
Solve problems involving converting between units of time				
MATHS: MEASUREMENT: MONEY				
Use all four operations to solve problems involving money using decimal notation, including scaling.				
MATHS: GEOMETRY: PROPERTIES OF SHAPE				
Find missing angles in complex shapes using knowledge about angles at a point and vertically opposite angles				
Identify 3-D shapes, including cubes and other cuboids, from 2-D representations				
Know angles are measured in degrees: estimate, compare acute, obtuse and reflex				
Draw given angles, and measure them in degrees (o)				
Identify: <ul style="list-style-type: none"> Angles at a point and one whole turn (360 degrees) Angles at a point on a straight line and a turn (180 degrees) Other multiples of 90 degrees Use properties of rectangles to deduce facts and find missing length & angles distinguish between regular and irregular polygons based on reasoning about equal sides and angles 				
MATHS: GEOMETRY: POSITION AND DIRECTION				
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.				
MATHS: STATISTICS				
Solve comparison, sum, difference problems using info presented in line graph				
Complete, read and interpret information in tables, including timetables.				

BOLD = Greater Depth

STAGE 1 - EMERGING	STAGE 2 - DEVELOPING	STAGE 3 - DEVELOPING +	STAGE 4 - SECURE	STAGE 5 - PROFICIENT
1-20	21-32	33-42	43-51	52-55

KS2 Framework