

ASSESSING MATHS: YEAR 5

NUMBER			
Place Value	Addition / Subtraction	Multiplication / Division	Fractions / Decimals
<ul style="list-style-type: none"> - Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000. - Compare and order numbers up to 1,000,000. - Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000. - Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0. - Read Roman numerals to 1000 (M) and recognise years written in Roman numerals. - Continue sequences including with fractions. e.g. 3, 3 ½, 4, 4 ½, 5... - <i>Describe in words the term-to-term rule for a sequence. e.g. add ½</i> <p>Solve number problems and practical problems that involve all of the above</p>	<ul style="list-style-type: none"> - Add and subtract numbers mentally with increasingly large numbers. e.g. 12,462-2,300 - Add and subtract whole numbers with more than 4 digits including using formal written methods. - Use rounding to check answers and determine (in the context of a problem) levels of accuracy. - Solve addition and subtraction multi-step problems in contexts. - Decide which operations and methods to use and why - Understand the meaning of the equals (=) sign.. 	<ul style="list-style-type: none"> - Identify multiples & factors. - Find all factor pairs of a number & common factors of 2 numbers. - Know & use the vocabulary of prime numbers, prime factors & composite (non-prime) numbers. - Recall prime numbers to 19. - Establish if any number up to 100 is prime. - \times/\div mentally using known facts. - \times/\div numbers by 10, 100 & 1000 including decimals. - Multiply numbers up to 4-digits by 1- or 2-digit numbers using formal written methods including long multiplication. - Divide numbers up to 4-digits by a 1-digit number using formal short division written method. - Interpret remainders appropriately for the context i.e. as a remainder, fraction, decimal or rounding. - Solve problems using knowledge of factors, multiples, squares and cubes. - Solve problems combining all 4 operations. - Solve problems including scaling by simple fractions and problems involving simple rates. - Recognise and use square numbers and cube numbers and the respective notations (²,³). - Understand the meaning of the equals (=) sign. 	<ul style="list-style-type: none"> - Recognise mixed numbers and improper fractions and convert from one to the other. - Write mathematical statements >1 as a mixed number. - Compare and order fractions whose denominators are all multiples of the same number. - Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths. - $+/-$ fractions with the same denominator. - $+/-$ fractions whose denominators are multiples of the same number. - Multiply proper fractions and mixed numbers. - Read/write decimals as fractions. - Recognise and use thousandths and relate to tenths, hundredths and decimal equivalents. - Round decimals with 2dp to the nearest whole number and to 1dp. - Read, write and compare numbers with up to 3dp. - Recognise per cent (%) symbol and understand that per cent relates to 'number of parts per 100'. - Write percentages as a fraction with denominator of 100 and as a decimal. - Solve problems involving number up to 3dp. - Solve problems involving % and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and fractions with denominator of a multiple of 10 and 25.
MEASUREMENT			
Measures / Money / Time			
<ul style="list-style-type: none"> - Convert between different units of metric measure. - Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints. - Estimate volume and capacity. - Draw lines using a ruler to the nearest mm. - Calculate and compare the area of rectangles (including squares) using standard units; cm² and m² and estimate the area of irregular shapes. - Measure and calculate the perimeter of composite rectilinear shapes in cm and m - Use perimeter to find missing lengths. - Solve problems involving converting between units of time. - Use all 4 operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation, including scaling. 			

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GEOMETRY	
Properties of Shape (incl. Angles)	Position and Direction
<ul style="list-style-type: none">- Use the properties of rectangles to deduce related facts and find missing lengths and angles.- Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.- Identify 3d shapes including cubes and other cuboids from 2d representations.- Know angles are measured in degrees ($^{\circ}$).- Estimate and compare acute, obtuse and reflex angles.- Draw given angles and measure them in degrees using a protractor.- Identify angles at a point (360°) and at a point on a straight line (180°).- Know that one whole turn = 360° and that $1/2$ turn = 180°.- Identify other multiples of 90°.	<ul style="list-style-type: none">- 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>Reflect shapes in lines parallel to the axes.</i>
STATISTICS	
Drawing / Extracting / Interpreting	
<ul style="list-style-type: none">- Decide which representation of data is most appropriate.- Complete, read and interpret information in tables including timetables.- Solve comparison sum and difference problems using information presented in a line graph.	