

YEAR 5 Maths Long Term Plan Overview



<p style="text-align: center;"><u>Place Value</u></p> <ul style="list-style-type: none"> ○ I can interpret negative numbers in context ○ I can count forwards and backwards in steps of powers of 10 for any given number up to 1,000,000 ○ I can round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000 ○ I can read write order and compare numbers to 1 000 000 (1 million) and determine the value of each digit 	<p style="text-align: center;"><u>Properties of Number</u></p> <ul style="list-style-type: none"> ○ I can work out if a number up to 100 is a prime number and have quick recall of all the prime numbers to 19 ○ I know divisibility tests for 2, 3, 4, 5, 6 and 9 and 25 ○ I can find all factor pairs of a number and common factors of two numbers ○ I can recognise squared and cubed numbers and use the correct notation 	<p style="text-align: center;"><u>Addition</u></p> <ul style="list-style-type: none"> ○ 5A.4 - I can add a mix of whole numbers and decimals with different numbers of decimal places using column addition ○ 5A.3 - I can add decimals which are near multiples of 1 or 10 including money (e.g. 6.34+1.99) ○ 5A.2 - I can add to the next 10 from a decimal number (e.g. 13.6+6.4=20) ○ 5A.1 - I know number bonds to 1 and the next whole number 	<p style="text-align: center;"><u>Subtraction</u></p> <ul style="list-style-type: none"> ○ 5S.4 - I can use efficient written subtraction with a mix of whole numbers and decimals with different numbers of decimal places using column subtraction ○ 5S.3 - I can efficient written subtraction with upto 5 digits using efficient column subtraction ○ 5S.2 - I can use the best mental calculation to subtract 1-, 2-, 3- and 4 digit numbers ○ 5S.1 - I can takeaway numbers which are near multiples of 1 or 10, including money (e.g. 6.34 - 1.99)
<p style="text-align: center;"><u>Multiplication</u></p> <ul style="list-style-type: none"> ○ 5M.7 - I can use the 'ladder' method to multiply 3 and 4 digit numbers by a teen number (long multiplication) ○ 5M.6 - I can use short multiplication to multiply a 1-digit number by a number with upto 4 digits and money ○ 5M.5 - I can use partitioning 1 place decimals and multiply by 1-digit numbers (e.g. 6.3x7) ○ 5M.4 - I can double amounts of money by partitioning (e.g. double £37.45) ○ 5M.3 - I can multiply mentally by near multiples of 10 (e.g. 19x34 as (20x34)-34) ○ 5M.2 - I can use number facts to make mental multiplication easier e.g. 43x6 is double 43x3 e.g. 28 x 50 is 1/2 of 28 x 100 = 1400 ○ 5M.1 - I can use related multiplication facts to multiply 1 place decimals e.g. 7 x 6 = 42 so 7x0.6=4.2 	<p style="text-align: center;"><u>Division</u></p> <ul style="list-style-type: none"> ○ 5D.6 - I can solve more complex problems involving division including with remainders and round the answer appropriately in context ○ 5D.5 - I can use short division to divide a number with up to 4 digits by 12 or less. ○ 5D.4 - I can begin to represent a remainder as a fraction or decimal ○ 5D.3 - I can divide by larger numbers mentally by subtracting the 10th or 100th multiple as appropriate ○ 5D.2 - I can halve amounts of money e.g. half of £52.40 is £26.20 ○ 5D.1 - I can divide whole numbers by 10, 100, 1000, 10000 to give whole number answers or answers with 1, 2 or 3 decimal places 	<p style="text-align: center;"><u>Fractions</u></p> <ul style="list-style-type: none"> ○ I can multiply proper fractions and mixed numbers by a whole number using diagrams and concrete apparatus ○ I can add and subtract fractions with denominators that are multiples of the same number ○ I can compare and order fractions where denominators are all multiples of the same number ○ I can simplify fractions using common factors ○ I can add and subtract fractions with the same denominators including recognising and converting improper fractions to mixed numbers ○ I can recognise and convert improper fractions to mixed numbers 	<p style="text-align: center;"><u>Problem Solving</u></p> <ul style="list-style-type: none"> ○ I can investigate a problem involving place value and properties of number, and present my investigation in a clear and organised way ○ I can solve problems with numbers up to 3 decimal places ○ I can use all 4 operations to solve equivalence statements (e.g. 5 x ? = 18 + 12) ○ I can solve multi step problems involving a combination of any of the 4 operations ○ I can solve problems involving multiplication and division including scaling by simple fractions ○ I can solve division problems interpreting remainders in a context and adjusting the answer appropriately ○ I can use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scaling ○ I can use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy
<p style="text-align: center;"><u>Position and Direction</u></p> <ul style="list-style-type: none"> ○ I can identify, describe and draw the position of a shape on a grid after a translation ○ I can identify, describe and draw the position of a shape on a grid after a reflection on a line parallel to the axis 	<p style="text-align: center;"><u>Percentages and Ratio</u></p> <ul style="list-style-type: none"> ○ I can recognise and understand % as part of 100 and write a % as a fraction and a decimal including 1/2, 1/4, 1/5, 2/5 and fractions with a denominator with a multiple of 10 or 25 	<p style="text-align: center;"><u>Statistics</u></p> <ul style="list-style-type: none"> ○ I can decide which representations of data are most appropriate and explain why ○ I can complete, read and interpret information presented in tables, including timetables ○ I can solve problems using information presented in line graphs 	<p style="text-align: center;"><u>Perimeter and Area</u></p> <ul style="list-style-type: none"> ○ I can find unknown lengths on rectilinear shapes using my understanding of perimeter and area ○ Express algebraically: A rectangle with sides of 2cm and b cm and a perimeter of 20cm can be expressed as 4 + 2b =20 ○ I can estimate the area of irregular shapes ○ I can measure and calculate the area of shapes that need to be divided into rectangles (composite rectilinear shapes) in cm²; and m²; ○ I can measure and calculate the perimeter of shapes that need to be divided into rectangles (composite rectilinear shapes) in cm and m
<p style="text-align: center;"><u>Decimals</u></p> <ul style="list-style-type: none"> ○ I can read, write, order and compare numbers that have a mixture of 1, 2 or 3 decimal places ○ I can recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents ○ 30/1000 = 0.03 = 3/100 ○ I can round decimals with 2 decimal places to the nearest whole number and to one decimal place 	<p style="text-align: center;"><u>Shape</u></p> <ul style="list-style-type: none"> ○ I can find missing lengths and angles in rectangles using my knowledge of related facts ○ I can calculate missing angles on a straight line (180°) or at a point (360°) or within a right angle (90°) ○ I can identify 3D shapes from 2D representations ○ I can identify regular and irregular shapes using my knowledge of length of sides and angles ○ I can draw and measure given angles in degrees 	<p style="text-align: center;"><u>Measurement</u></p> <ul style="list-style-type: none"> ○ I can understand and use approximate equivalences between metric units and common imperial units (Inches, pounds, pints) ○ I can estimate volume and capacity and explore these concepts using practical materials ○ I can use all 4 operations to solve problems involving length, mass, capacity and scaling ○ I can convert between different units of measure using my understanding of times and divide by 10, 100 and 1000 	

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