

Mathematics

Year 5 Numeracy (Strands from Active Learn – Abacus)	Autumn Term 1 NPV.58 Understand place value in 5-digit numbers by creating 5-digit numbers, placing them on a number line and solving place value additions and subtractions NPV.59 Order and compare 5-digit numbers and say a number between WAS.54 Use column addition to add two 4-digit numbers with answers > 10000 MAS.28 Add/subtract 2-digit numbers to/from 2-digit numbers by counting on/back MAS.31 Add pairs of 2-digit numbers with a total ≤ 198 MAS.33 Subtract 2-digit from 2-digit numbers by counting up MAS.15 Use number facts to 10 to solve problems including word problems MAS.49 Count up to subtract any 3-digit from 3-digit number MAS.60 Use counting up to subtract 4-digit numbers from near multiples of 1000 MAS.56 Use mental strategies to add 2-digit, 3-digit and 4-digit numbers NPV.33 Understand place value in 3-digit numbers by creating 3-digit numbers, placing them on a number line and solving place value additions and subtractions DPE.60 Match 2-place decimals to 1/100s, using a place value grid DPE.61 Use place value to multiply and divide numbers by 10 and 100, involving 2-place decimals DPE.62 Use place value to add and subtract 0•1 and 0•01 to and from decimal numbers MMD.41 Use doubling and halving to multiply and divide by 4 and 8 and solve correspondence problems MMD.65 Use advanced mental multiplication strategies MEA.63 Read, write and convert time between analogue and digital 12 and 24 hour clocks MEA.52 Compare durations of events to calculate the time taken by particular events or tasks MEA.55 Use 24 hour clocks MEA.65 Convert between different units of measure, e.g. kilometres to metres, metres to centimetres, etc. MEA.67 Measure and calculate the perimeter of composite rectilinear shapes in m/cm	Spring Term 1 NPV.63 Understand place value in 6-digit numbers by creating 6-digit numbers, placing them on a number line and solving place value additions and subtractions NPV.64 Order and compare 6-digit numbers and say a number between NPV.62 Understand the effect of multiplying or dividing a given number by 10, 100 or 1000; answers < 100000 and with not more than 2 decimal places DPE.65 Multiply and divide numbers by 10 and 100 to give 1- or 2-place decimal answers DPE.62 Use place value to add and subtract 0•1 and 0•01 to and from decimal numbers DPE.64 Round 1- and 2-place decimals up and down to the nearest whole number DPE.66 Round 2-place decimals up or down to the nearest tenth MAS.56 Use mental strategies to add 2-digit, 3-digit and 4-digit numbers MAS.62 Add any pair of 1-place decimals MAS.63 Work out what number to add to a 2-place decimal to make the next whole number MAS.58 Understand addition and subtraction as inverses of each other and use this to find relationships MAS.60 Use counting up to subtract 4-digit numbers from near multiples of 1000 MAS.50 Subtract 4-digit from 4-digit multiples of 1000 by counting up WAS.58 Use expanded or compact decomposition to subtract numbers with up to 4-digits (harder) MMD.62 Apply divisibility tests for 2, 3, 4, 5, 6, 9, 10 and 25 MMD.61 Identify factors and multiples, and begin to find common factors MMD.55 Use mental strategies to solve multiplications including multiplying by 0 and 1, dividing by 1, multiplying together three numbers MMD.57 Use mental strategies to solve divisions including dividing by 1 MMD.66 Use efficient mental division strategies to divide large numbers NPV.68 Identify all the prime numbers less than 100 using Eratosthenes sieve	Summer Term 1 MAS.68 Use place value to add near integers including amounts of money MAS.65 Use mental strategies to add amounts of money with 2 decimal places MAS.66 Use number facts to add several amounts of money MAS.67 Use counting up strategies to quickly calculate change MAS.69 Use place value to subtract near integers including amounts of money DPE.64 Round 1- and 2-place decimals up and down to the nearest whole number FRP.65 Multiply fractions by whole numbers FRP.66 Use the grid method to multiply mixed numbers by integers WMD.63 Use short multiplication to multiply 3-digit numbers by 1-digit numbers WMD.64 Use short multiplication to multiply 4-digit numbers by 1-digit numbers WMD.70 Use long multiplication to multiply 2-digit and 3-digit numbers by 2-digit numbers (friendly numbers) WMD.65 Begin to use long multiplication to multiply 2-digit and 3-digit numbers by teens numbers DPE.68 Match 1-, 2- and 3-place decimals to 1/10s, 1/100s and 1/1000s, using a place value grid DPE.70 Read, write and order 3-place decimals using a number line DPE.72 Order and compare 3-place decimal numbers and write a number in between DPE.69 Divide numbers by 10, 100 and 1000 to get answers with 3 decimal places, using a place value grid DPE.68 Match 1-, 2- and 3-place decimals to 1/10s, 1/100s and 1/1000s, using a place value grid DPE.70 Read, write and order 3-place decimals using a number line DPE.72 Order and compare 3-place decimal numbers and write a number in between DPE.69 Divide numbers by 10, 100 and 1000 to get answers with 3 decimal places, using a place value grid DPE.64 Round 1- and 2-place decimals up and down to the nearest whole number DPE.66 Round 2-place decimals up or down to the nearest tenth
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<p>WAS.48 Use expanded decomposition to subtract 3-digit from 3-digit numbers</p> <p>WAS.50 Use compact decomposition to subtract 3-digit from 3-digit numbers</p> <p>WAS.55 Use expanded or compact decomposition to subtract numbers with up to 4-digits (easier)</p> <p>MAS.49 Count up to subtract any 3-digit from 3-digit number</p> <p>MAS.55 Subtract 3-digit from 4-digit numbers by counting up</p> <p>MAS.67 Use counting up strategies to quickly calculate change</p> <p><u>Autumn Term 2</u></p> <p>MMD.62 Apply divisibility tests for 2, 3, 4, 5, 6, 9, 10 and 25</p> <p>MMD.63 Recognise common factors and relate these to common multiples</p> <p>MMD.61 Identify factors and multiples, and begin to find common factors</p> <p>FRP.55 Compare and order unit fractions and related fractions, using fraction walls and strips</p> <p>FRP.63 Place mixed fractions on a number line to compare fractions with the same denominator</p> <p>FRP.58 Use equivalent fractions to reduce any given fraction to its simplest form</p> <p>MMD.58 Understand multiplication and division as inverses of each other and use this to find relationships</p> <p>MMD.60 Multiply and divide multiples of 10, 100 and 1000 by 1-digit numbers</p> <p>WMD.49 Multiply 3-digit by 1-digit numbers using the ladder method</p> <p>WMD.60 Use the ladder method to multiply 4-digit by 1-digit numbers</p> <p>WMD.52 Divide 3-digit by 1-digit numbers using a written method drawn from mental strategies with integer remainders and answers < 50</p> <p>WMD.58 Divide 3-digit by 1-digit numbers using a written method drawn from mental strategies with answers > 50, and give answers as appropriate</p> <p>WMD.47 Divide numbers just beyond the tables, with remainders given as fractions where the fraction is obvious</p>	<p>NPV.67 Identify square numbers up to 100, understand concept of a square root, relate square roots to square numbers</p> <p>GPS.58 Recognise that an equilateral triangle is a regular polygon with angles of 60°</p> <p>GPS.57 Compare and classify triangles, according to their properties</p> <p>MEA.37 Read relevant scales to the nearest numbered unit</p> <p>MEA.43 Measure, compare, add and subtract weights (masses) using kg/g</p> <p>MEA.65 Convert between different units of measure, e.g. kilometres to metres, metres to centimetres, etc.</p> <p>MEA.70 Recognise and estimate volume and capacity using ccs and ml</p> <p>STA.61 Interpret and present continuous data using line graphs</p> <p>WAS.62 Use column addition to add pairs of 2-place decimals, including amounts of money</p> <p>WAS.63 Use counting up on a number line to subtract 2-place decimals from 2-place decimals</p> <p><u>Spring Term 2</u></p> <p>WMD.56 Use the grid method to multiply 2-digit by 2-digit numbers and solve problems in which n objects are connected to m objects (distributive law)</p> <p>WMD.61 Use short division to divide 3-digit by 1-digit numbers with no remainders</p> <p>WMD.59 Understand when it is appropriate to round up or down after division</p> <p>WMD.62 Use short division to divide 3-digit by 1-digit numbers with integer remainders</p> <p>WMD.61 Use short division to divide 3-digit by 1-digit numbers with no remainders</p> <p>WMD.63 Use short multiplication to multiply 3-digit numbers by 1-digit numbers</p> <p>WMD.64 Use short multiplication to multiply 4-digit numbers by 1-digit numbers</p> <p>FRP.62 Understand fractions as operators and relate this to division; find non-unit fractions of large numbers</p> <p>GPS.24 Understand that 2D shapes with straight sides are polygons and so identify polygons</p> <p>GPS.42 Identify parallel and perpendicular lines in 2D shapes</p> <p>GPS.56 Compare and classify acute and obtuse angles; order angles up to 180°</p>	<p>NPV.55 Locate negative numbers on a number line and relate to temperature</p> <p>NPV.56 Find numbers more or less than a given negative number and relate to temperature</p> <p>GPD.55 Describe positions on a 2-dimensional grid as co-ordinates (1st quadrant)</p> <p>GPD.57 Plot points and draw sides to complete a polygon on a co-ordinate grid (1st quadrant)</p> <p>GPD.66 Identify and describe the position of a shape on a co-ordinate grid following a translation</p> <p>GPD.67 Identify and describe the position of a shape on a co-ordinate grid following a reflection</p> <p>GPD.71 Describe positions on a full co-ordinate grid</p> <p>GPD.72 Draw and translate simple shapes; reflect shapes in the axes</p> <p>GPS.67 Draw and construct 2D shapes with given dimensions and angles</p> <p>GPS.71 Know and use the properties of a square and rectangle and deduce related facts</p> <p>GPS.38 Make cuboids, cubes, tetrahedra and pyramids from nets</p> <p>GPS.63 Identify cubes and cuboids from 2D representations</p> <p>GPS.69 Identify 3D shapes from 2D representations</p> <p>WAS.65 Use compact column addition to add two or three 5-digit numbers</p> <p>WAS.68 Use column addition to add several numbers with up to 5-digits</p> <p>WAS.67 Use column subtraction to subtract 5-digit from 5-digit numbers, where there are not more than two 0s in the larger number</p> <p>WAS.70 Choose an appropriate written method to solve subtraction problems</p>
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express these in approximate terms</p> <p>FRP.48 Count in fractions, including equivalents</p> <p>FRP.63 Place mixed fractions on a number line to compare fractions with the same denominator</p> <p>FRP.64 Convert mixed numbers to improper fractions and vice versa</p> <p>FRP.65 Multiply fractions by whole numbers</p> <p>WAS.55 Use expanded or compact decomposition to subtract numbers with up to 4-digits (easier)</p> <p>WAS.58 Use expanded or compact decomposition to subtract numbers with up to 4-digits (harder)</p> <p>WAS.56 Use column addition to add several numbers with up to 4-digits with answers > 10000</p> <p>WAS.64 Use column addition to add several numbers with up to 4-digits</p>	<p>Summer Term 2</p> <p>MMD.61 Identify factors and multiples, and begin to find common factors</p> <p>FRP.60 Recognise the equivalence of simple fractions and decimals</p> <p>FRP.68 Use equivalence to compare and order fractions that don't have the same denominator but are related</p> <p>FRP.69 Use equivalence to add and subtract related fractions</p> <p>FRP.65 Multiply fractions by whole numbers</p> <p>FRP.66 Use the grid method to multiply mixed numbers by integers</p> <p>WMD.62 Use short division to divide 3-digit by 1-digit numbers with integer remainders</p> <p>WMD.67 Use short division to divide 4-digit by 1-digit numbers (harder numbers) with integer remainders</p> <p>WMD.69 Understand that division can result in integer remainders, mixed numbers (e.g. 34 1/4), or answers accurate to one or two decimal places</p> <p>WMD.65 Begin to use long multiplication to multiply 2-digit and 3-digit numbers by teens numbers</p> <p>WMD.66 Begin to use long multiplication to multiply 4-digit numbers by teens numbers</p> <p>MEA.66 Calculate and compare areas of squares and rectangles using standard units</p> <p>MEA.67 Measure and calculate the perimeter of composite rectilinear shapes in m/cm</p> <p>MEA.68 Estimate the area of irregular shapes using standard units</p> <p>MEA.70 Recognise and estimate volume and capacity using ccs and ml</p> <p>DPE.67 Recognise the % symbol; understand what percentage means (fraction with a denominator of 100)</p> <p>DPE.71 Relate percentages to fractions and find 10%, 20% and other easy percentages of whole numbers or amounts of money (whole pounds)</p> <p>DPE.73 Understand equivalence between fractions, percentages and decimals e.g. 13% = 0.13 = 13/100</p> <p>FRP.60 Recognise the equivalence of simple fractions and decimals</p> <p>NPV.69 Read Roman numerals to 1000 (M) and recognise dates</p> <p>STA.61 Interpret and present continuous data using line graphs</p> <p>STA.71 Solve comparison, sum and difference problems using information presented in line graphs</p>
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