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| **Benthal Year 4 Yearly Overview** | | | | | | | | | | | |
| **Autumn 1** | | **Autumn 2** | | **Spring 1** | | **Spring 2** | | **Summer 1** | | **Summer 2** | |
| **Wk 1**  Place value**(TS1)** | * Read and write whole numbers up to 100,000 in figures and words * Know what each digit in a 5-digit number represents * Partition 4 - digit numbers into Th, H, T and U | **Wk 1**  Mental Calculation (TS7) | * Add several 1-digit numbers (using pairs to 10, known doubles) * Add several multiples of 10 or 100 * Use known number facts to work out sums and differences of multiples of 10 and 100 | **Wk 1**  Place Vlaue (compare and order TS | * Count on or back in 1s, 10s, 100s or 1000s from any whole number up to 100 000; * Add or subtract 1, 10, 100 or 1000 to or from any integer * Compare and order numbers up to 10 000 * Use symbols for less than (<) and greater than (>); * Say one or more numbers lying between two given numbers | **Wk 1**  Perimeter and area (TS16) | * Begin to understand the term 'perimeter'; * Measure the perimeter of rectangles and other simple shapes; * Understand the difference between area and perimeter | **Wk 1**  Place Vlalue (TS21) | * round 4 digit numbers to nearest 10/ to nearest 100 * round a sum of money to the nearest £1 * Multiply and divide by 10 and 100 * Use doubling or halving to find new facts from known facts | **Wk 1**  **Data – carroll and Venn (TS 26)** | * Organise and interpret data represented in a Venn diagram (two criteria); * Organise and interpret data represented in a Carroll diagram (two * criteria) * read time on a calendar |
| **Wk 2**  Multiplication facts, division**(TS 2)** | * Rehearse the concept of multiplication as describing an array; * Understand division as the inverse of multiplication; * Find remainders after division * round up or down after division, depending on the context * Divide a whole number of pounds by 2, 4, 5 or 10 to give £.p | **Wk 2**  Addition and subtraction – written methods | * Add numbers with up to 4 digits using the column method * Subtraction of numbers with up to 4 digits * Count on to find the difference * Choose and use the most appropriate method of calculation * Solve addition and subtraction two step problems | **Wk 2**  Number properties and sequences (TS12) | * Recognise odd and even numbers up to 1000 * Recognise properties odd and even numbers, including their sums and differences * Recognise negative numbers in context; * Recognise and extend number   sequences formed by counting from any number in steps of constant size, extending beyond zero when counting back | **Wk 2**  Addition - mental and written (TS17/18) | * Revise mental addition for 2 digit numbers, 3 digit number and multiple of 10 * Add near multiples of 10 * Add numbers with up to 4 digits using the column method * Choose and use the most appropriate method of calculation | **Wk 2**  Direction and angles (TS24) | * Use the 8-point compass directions * Make and measure clockwise and anticlockwise turns * Know that angles are measured in degrees | **Wk 2**  Addition and subtraction –word problem  **TS 27)** | * Add and subtract amounts of money, for example £3·26 + £5·85, using standard * written methods; * carry out 1- and 2-step calculations |
| **Wk 3**  Mental Addition (TS3) | * Derive quickly pairs * of multiples of 50 that total 1000; * Derive quickly pairs of numbers that total 100 * Find what to add to a 3-digit number to make 100 or the next multiple of 100 * Find what to add to a 4-digit multiple of 100 to make the next multiple of 1000 * solve missing number problems | **Wk 3**  Time (TS 8) | * Read the time to the nearest minute on analogue clocks; * Read the time to the nearest minute on 12-hour digital clocks; * Use am and pm and the notation 9:53 * Estimate and measure time using seconds, minutes, hours * Know how long something takes if I know the start and end time | **Wk 3**  Doubling and halving (TS13) | * Derive doubles of integers up to 50 and corresponding halves * Identify near doubles using known doubles * Derive doubles of multiples of 10 to 500 and corresponding halves; * Derive doubles of multiples of 100 to 5000 and corresponding halves; | **Wk 3**  Subtraction - mental and written (TS17/18) | * Revise mental subtraction for 2 digit numbers, 3 digit number and multiple of 10 * Subtract near multiples * Counting on to find the difference * Find a small difference by counting on * Subtraction using formal methods | **Wk 3**  Coordinates, position and direction (TS 25) | * Locate position on a grid, use the term 'coordinate'; * Recognise simple examples of horizontal and vertical lines * Describe movements between positions as translations * Plot specified points and draw sides to complete a given polygon | **Wk 3**  Multiplication and division – written (TS28/29) | * Recall multiplication and division fcats up to 12 x12 * Multiply single digit numbers by 10 and 100 * Multiply HTU x U using standards written methods * Divide HTU ÷ U using standard written methods; * Solve one and two word problems including those with remianders |
| **Wk 4**  2d Shapes (TS5) | * Rehearse the names of common 2D shapes * Construct polygons; * Describe and visualise 2D shapes * Classify polygons using criteria such as the number of right angles and whether or not they are regular; * Recognise equilateral isosceles triangles | **Wk 3**  Multiplication and division (TS9) | * Know by heart the multiplication facts for 2, 3, 4, 5 and 10 * times-tables; derive division facts * Recognise multiples of 2, 3, 4, 5 and 10, up to the tenth multiple; * Begin to recall 6 and 8 x tables * Multiplying 3 single digit numbers * Count on or back in 25s or 50s to and from 100 | **Wk 4**  Shapes – symmetry/ 3D shapes and nets (TS14) | * Rehearse the concept of line symmetry; * Classify polygons according to their lines of symmetry; * Sketch the reflection of a shape in a mirror line parallel to one side * Rehearse the names of common 3D shapes; Describe and visualise 3D * shapes; Begin to use the terms 'polyhedron' and 'tetrahedron'*;* Visualise * 3D shapes from 2D drawings and identify simple nets of solid shapes | **Wk 4**  Multiplication (facts and written methods TS19) | * Multiplication and division facts up to 12 x 12 * Multiply single digit number by multiple of 10/ 100 * Dervie associated facts from multiplying by 10 and 100 * Multiply TU x U * Multiply HTU x U | **Wk 4**  **Division** | * Use short division for with exact answers * Use short division for answers with remainders when dividing by a single digit * Interpret reminders in context of questions * Divide a whole number of pounds by 2, 4, 5 or 10 to give £.p | **Wk 4**  Solving problems – all 4 operations |  |
| **Wk 5**  Length and area (TS5) | * Use, read and write standard metric units of length: m, cm, mm, km; * Convert centimetres to metres and vice versa; * Suggest suitable units and measuring equipment to estimate and measure length * Understand area as 'covering' in two dimensions and measure area using non-standard units; * measure area using standard units: cm2 | Wk 5  Fractions (TS10) | * Recognise simple fractions that are several parts of a whole * Identify two simple fractions with a total of 1 * Add and subtract fractions with the same denominator * Recognise mixed numbers * Recognise the equivalence of simple fractions (using diagrams) | **Wk 5**  Capacity (TS 15) | * Use standard units of capacity: l, ml; Rehearse the relationship * between litres and millilitres; Know the equivalent of ½, ¼, 3/4/ , 1/10 of 1 litre in ml * Begin to use imperial units of capacity: pints * Record estimates and readings from capacity scales | **Wk 5**  **Data – bar graphs** | * Construct and interpret bar graphs with intervals labelled in 2s, 5s, 10s or 20s; * Compare bar graphs with scales of differing step size | **Wk 5 –**  **solving problems – all four operations** |  | **Wk 5**  Decimals (TS 30) | Use decimal notation for hundredths  Compare and order amounts of money;  Recognise decimal notation in context of money  Round decimals to the nearest whole number  Count in decimals |
| **Wk 6**  Data (TS6) | * use tally charts to record observations * Represent data in frequency tables; Interpret tally charts and frequency tables * Construct and interpret pictograms where the symbol represents several units | **Wk 6**  Fractions and decimals | * Use decimal notation for tenths; * Recognise the equivalence between the decimal and fraction forms of halves and tenths * Recognise the value of each digit in decimal numbers up to 2 dp * find the effect of dividing by 10 and 100, identifying the value of the digits as units, tenths and hundredths | **Wk 6**  Time (TS 15) | * Convert time between analogue and digital 1**2 and 24 hour clocks** * Read simple timetables * Use a calendar | **Wk 6**  **Fractions (TS 19)** | * Compare and order fractions; * Locate fractions on a number line * Find fractions of shapes drawn on squared paper * Find fractions of a number by division | **Wk 6**  Measures – mass and reading scales (TS 25) | * Use, read and write standard units of weight: kg, g * Know the relationship between grams and kilograms; * Know the equivalent in grams of ¼, ½, ¾   of a 1 kg in g;   * Suggest suitable units and measuring equipment to estimate or measure weight; * Record estimates and readings from scales | **Wk 6**  Problems involving fractions and decimals | Solve simple measure and modeny problems involving fractions and decimals to two decimal places |