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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$11)$ | * 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
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| **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
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| **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
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| **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 5Fractions (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 hundredthsCompare and order amounts of money;Recognise decimal notation in context of moneyRound decimals to the nearest whole numberCount 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  |