## Barndale House School

Mathematics Scheme of Work
Yearly Overview
Every day is an opportunity to shine
Class 2 (Upper Key Stage 2)

|  | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \frac{5}{5} \\ \frac{1}{3} \\ \hline \end{gathered}$ | Number: Place Value |  |  | Number: Addition and Subtraction |  |  |  |  | Number: Multiplication and Division |  |  |  |
| $\begin{aligned} & \text { g } \\ & \text { 高 } \\ & \text { 向 } \end{aligned}$ | Number: Multiplication and Division |  |  | $\begin{gathered} \text { Measurement } \\ \text { : Money } \end{gathered}$ | Statistics |  | Measurement: length and perimeter |  |  |  | ions |  |
| $\begin{aligned} & \frac{\Sigma}{U} \\ & \frac{1}{E} \\ & \frac{5}{J} \end{aligned}$ | Number: Fractions |  |  | Measurement: Time |  |  | Geometry: <br> Properties of Shape |  | Measurement: Mass and Capacity |  |  |  |

## Class 2 (Upper Key Stage 2) - Autumn Term



# Class 2 (Upper Key Stage 2) - Autumn Term - Number: Place Value Small Steps Skills 

| P Step 4 and P Step 5 | Picks up and puts down single objects - Holds two objects at a time - Puts down an object in order to pick up another - Collects objects that interest them - Enjoys helping an adult count objects - Follows a counting sequence - Enjoys number rhymes and finger games - Joins in actions in number rhymes and finger games - Assists with one-one matching activities - Uses numbers when playing Holds up a single finger on request - Holds up two fingers on request - Indicates 1 object - Indicates 2 objects - Makes a group one 1 object - Makes groups of 2 - Makes groups of 'lots' |
| :---: | :---: |
| P Step 6 and $P$ Step 7 | Joins in rote counting to 10 - Counts up to 5 independently - Points to objects as they count - Counts up to 5objects - Puts 5 objects out on request - Matches numerals to 5 - Joins in number rhymes - Plays game using dice with 0 to 5 spots - Identifies numerals up to 3 - Names numerals to 5 - Sequences numbers to 5 - Puts quantities onto numerals - Matches numerals to quantities - Compares 2 sets of counters (up to 5) pointing to the group that is; smaller/larger/greater/fewer/more /less |
| P Step 8 | Joins in rote counting - Can rote count to 10 consistently - Counts up to 8 objects correctly - Matches numeral to 10 - Sequence numerals to 8 - Match quantities to 8 - Finds numbers on a number line to 10 - Write numbers to five - Record quantities using numbers 1 to 5 - Sorts numerals from other shapes - Ordinal numbers - first, last, second, third - Plays games using dice with numbers or spots to 10 |
| Step 1a | Joins in number stories and rhymes - points to numbers in surroundings - joins in rote counting to 20 - rote counts to 15 consistently - continues a rote count to 10 from a given number - counts out objects to 10 , matching the correct number name to each object states the last number spoken in a count as the amount in total - recognises numbers to 10 - matches numerals to 20 - orders numbers to 10 - writes numbers to 10 - compares quantities to 10 - puts out quantities to $10-$ from a given number to 10 finds number before/after, one more/less |
| Step 1b | Observes different numbers to 50 - Counts forward from 0 to 20 - Counts an irregular arrangement of up to 20 objects - Counts in ordinal numbers to 10 - Identifies the position of an object using ordinal numbers to $10^{\text {th }}$ - uses the term last for the final object realizes the relationship between ordinal and cardinal numbers - finds numbers to 20 on a number line 0 writes numbers to 20 consistently - orders numbers to 20 consistently 0 - identifies missing numbers on a number line - identifies the number between two given numbers - counts 20 objects consistently - counts objects/things that cannot be touched to 20 |
| Step 1c | Observes different numbers to 100-Counts forward from 0 to 50 - Counts in ordinal numbers to 20 - Identifies the position of an object using ordinal numbers to $20^{\text {th }}$ - Uses the term last for the final object - Realizes the relationship between ordinal and cardinal numbers - Finds numbers to 50 on a number line - writes numbers to 50 consistently - orders numbers to 50 consistently - identifies missing numbers on a number line - identifies the number between two given numbers - counts 50 objects consistently - counts objects/things that cannot be touched to 50 |
| Step 1d | Rote counts to 100 accurately - Joins in rote counting in groups of 10 to 100-Counts forward from 0 to 100-Counts backwards from |


|  | 100 to 0 - Counts forwards and backwards between 2 given numbers up to 100 - Counts on from a given number to 100 - Knows that the numbers in the counting sequence are getting bigger - Reads numbers to 100 - Writes numbers to 100 - Writes phonetically acceptable words for numbers to 20 - Records number of objects - Relates ordinal numbers to cardinal numbers - Relates cardinal numbers to dates - Gives an empty set a value of none or 0 - Uses the terms: more, add, and, score, make, sum, total, altogether, double, less, take away, leave |
| :---: | :---: |
| Step L2 | Starts counting at a given number to 100 - Counts forwards and backwards between two given numbers - Places three non-sequential numbers up to 100 in order - Extends a number sequence counting on in twos - Estimates the position of any number up to 100 on a number line or number square - Counts beyond 100-Writes numbers in words up to $50-$ Partitions two digit numbers eg $27=20+7$ |
| Step U2 | Reads, writes, orders and compares numbers to 1000 - Compares numbers using < and > signs - Counts forwards and backwards from 0 in multiples of $2,5,10,3,4,8,50,100,6,7,9,25$ and 1000 -Estimates numbers to 100 -Recognises patterns in the number systemRecognises the place value of each digit in a three or four digit number - Use partitioning related to place value to solve problems Rounds numbers up to the nearest 10,100 or 1000 - Counts backwards through zero to include negative numbers - Places negative and positive numbers on a number line - Reads Roman numerals to 100 and know that the numeral system changed to include the concept of 0 and place value |

# Class 2 (Upper Key Stage 2) - Autumn Term - Number: Addition and Subtraction Small Steps Skills 

| P Step 4 and $P$ Step 5 | Holds two objects at a time - Communicates 'gone' or 'all gone' - Uses objects with multiple parts - Asks for more of something - Responds to 'give me some...' - Responds to 'find one the same' - Responds to 'show me another...' - Makes groups of 2 - Makes groups of 'lots' - Relates commonly associated objects eg gloves for hands - Picks up more than one object on request - Makes two equal sets - Contrast quantities |
| :---: | :---: |
| P Step 6 and $P$ Step 7 | Completes a 3 piece form board - One to one matching - Matches pictures to pictures - Identifies and requests more when there are too few objects to complete 1 to 1 matching - Adds an object to a group and counts how many (up to 5) - Removes an object from a group and counts how many (up to 5) |
| P Step 8 | From a given number to 5 find: the number before/ the number after/ one more/ one less - Add 1 more and count how many to 10 - Remove 1 and count how many left to 10 |
| Step 1a | Using objects to do addition to 10 - Realises that addition means combining two groups - Finds the total number of items in two groups by counting them - is aware of the terms; more/add/make/sum/total/altogether/take away/ leave/how many left/ how many gone - Uses objects to 10 takes away given amount - takes objects away from a group when asked to subtract - Separates sets of up to 20 objects into 2 groups |
| Step 1b | Separates sets of up to 20 objects into 2 groups - States how many are left when some are taken away - Solves subtraction by counting on - Uses number bonds to 10 - Reads and writes the signs + , - and =-Adds two numbers to make 10 - Subtracts one number from 10 - Counts back using a number line to 20 to find how many left - Counts on to find how many are required - Identifies the operation required to solve simple problems Knows number bonds to 10 |
| Step L2 | Understands that the sum does not change no matter what the objects are called - Creates number stories to 20 - Investigates simple problems Adds two numbers to make 20 - Subtracts two single digit numbers - Uses concrete and pictoral aids to add two digit numbers to single digits uses concrete and pictoral aids to subtract one digit numbers from a two digit number - Explains the effect of adding or subtracting zero Recognises that addition can be done in any order - Recognises that subtraction cannot be done in any order - Uses bonds with related facts to 100 - Can add multiples of 10 - can subtract multiples of 10 - recognises patterns eg $2+3=5,22+3=25$ |
| Step U2 | Uses concrete and pictoral aids to add two digit numbers to ten, two two digit numbers, three single digit numbers - Uses concrete and pictoral aids to subtract ten from a two digit number, two digit numbers from two digit numbers - Recognises that subtraction is the inverse of additionRecords mental addition and subtraction sums, writing numbers and signs - Records addition and subtraction in columns - Adds and subtracts a three digit number and 1 mentally - Adds and subtracts a three digit number and 10 mentally - Adds and subtracts a three digit number and 100 mentally - Estimates the answer to a calculation - Adds and subtracts numbers with up to three digits, using formal written methods - Uses place value to solve problems - Decides which operation is required to solve a problem |

## Small Steps Skills

| P Step 4 and $P$ Step 5 | Holds two objects at a time - Communicates 'gone' or 'all gone' - Uses objects with multiple parts - Follows counting sequence Makes groups of 2 - Relates commonly associated objects eg gloves for hands - Brings both shoes when asked - Picks up more than one object on request - Makes two equal sets - Contrast quantities - Makes groups of two - Makes groups of three - Gives to things to each person in a group |
| :---: | :---: |
| P Step 6 and $P$ Step 7 | Completes a 3 piece form board - One to one matching - Matches pictures to pictures - Identifies and requests more when there are too few objects to complete 1 to 1 matching - Puts quantities onto numerals - Matches numerals to quantities - Compares 2 sets of counters (up to 5) pointing to the group that is; smaller /larger/greater /fewer/more /less |
| P Step 8 | Shares objects into groups |
| Step 1 | Combines two equal groups - Doubles numbers to 5 - Divides objects between to plates - Creates groups of small quantities eg sharing ten into groups of five, three and two - Shares small quantities into groups - Uses counting on to find a double to 20 Doubles any number to ten - Places objects in an array - Counts objects in an array - Counts in lots of 2 - Counts in lots of 5 Counts in lots of 10 |
| Step L2a | Calculates multiplication and division problems with support - Doubles any number to ten - Begins to double numbers to 20 |
| Step L2b | Recalls doubles to 20 - Recognises odd and even numbers - Recalls multiplication and division facts for the 2 times table - Uses a rectangular array for X2-Reads and writes the signs for multiply, divide and equals - Writes number statements using the correct sign - Understands division as sharing equally - Understands division as grouping |
| Step U2a | Recalls multiplication and division facts for 5 times table, 10 times table - Recognise that multiplication can be done in any order - Recognises that division cannot be done in any order - Calculate multiplication statements and division statements within the multiplication tables - Understands multiplication as repeated addition - Solves problems using arrays |

## Class 2 (Upper Key Stage 2) - Spring Term



Class 2 (Upper Key Stage 2) - Spring Term - Number: Multiplication and Division

| P Step 4 and $P$ Step 5 | Holds two objects at a time - Communicates 'gone' or 'all gone' - Uses objects with multiple parts - Follows counting sequence Makes groups of 2 - Relates commonly associated objects eg gloves for hands - Brings both shoes when asked - Picks up more than one object on request - Makes two equal sets - Contrast quantities - Makes groups of two - Makes groups of three - Gives to things to each person in a group |
| :---: | :---: |
| P Step 6 and $P$ Step 7 | Completes a 3 piece form board - One to one matching - Matches pictures to pictures - Identifies and requests more when there are too few objects to complete 1 to 1 matching - Puts quantities onto numerals - Matches numerals to quantities - Compares 2 sets of counters (up to 5) pointing to the group that is; smaller/larger/greater/fewer/more /less |
| P Step 8 | Shares objects into groups |
| Step 1 | Combines two equal groups - Doubles numbers to 5 - Divides objects between to plates - Creates groups of small quantities eg sharing ten into groups of five, three and two - Shares small quantities into groups - Uses counting on to find a double to 20 Doubles any number to ten - Places objects in an array - Counts objects in an array - Counts in lots of 2 - Counts in lots of 5Counts in lots of 10 |
| Step L2a | Calculates multiplication and division problems with support - Doubles any number to ten - Begins to double numbers to 20 |
| Step L2b | Recalls doubles to 20 - Recognises odd and even numbers - Recalls multiplication and division facts for the 2 times table - Uses a rectangular array for X2 - Reads and writes the signs for multiply, divide and equals - Writes number statements using the correct sign - Understands division as sharing equally - Understands division as grouping |
| Step U2a | Recalls multiplication and division facts for 5 times table, 10 times table - Recognise that multiplication can be done in any order - Recognises that division cannot be done in any order - Calculate multiplication statements and division statements within the multiplication tables - Understands multiplication as repeated addition - Solves problems using arrays |
| Step U2b | Writes mathematical statements for multiplication and division for known tables - Multiplies a two digit number by a one digit number - Finds missing numbers in multiplication and division stories - Identifies which of the four operations is required to solve a problem - Recalls multiplication and vision facts for multiplication tables up to $12 \times 12$ - Multiplies by 0 and 1 - Recalls multiples of 10 and 100 - Calculates using formal written methods for multiplication and division |

## Class 2 (Upper Key Stage 2) - Spring Term - Measurement: Money Small Steps Skills

| P Step 4 and $P$ Step 5 | Shows an interest in the coins in an adult's purse - Plays with coins - Goes shopping - Role plays shopping - Sorts coins into silver and copper |
| :---: | :---: |
| P Step 6 and P Step 7 | Matches coins - Counts up to 51 p coins correctly - Sorts coins by colour and size - Plays shop with items valued up to 5p using 1p coins |
| P Step 8 | Match 10 pence using ten 1 p coins - Puts out the correct number of coins to 10p |
| Step 1 | Recognises and knows the value of different denominations of coins - Gives equivalent amounts to 20 p - adds two numbers to make 20 <br> - Counts in $2 s$ to 100 - Counts in $5 s$ to 100 -Counts in 10s to 100 |
| Step L2 | Gives equivalent amounts to 50p - Gives change from 10p and 20p - Understands and uses £ p notation - Totals shopping bills using coins - Places three non-sequential amounts up to $£ 1$ in order - Partitions two digit numbers using apparatus if required eg $27=20+7$ |
| Step U2 | Recognises the symbol for pence ( $p$ ) and pounds (3) - Combines amounts to make a specific value - Uses different coins to make the same amount - Solves simple problems involving addition and subtraction of money of the same unit eg $48 p+35 p-$ Solves simple problems of the same unit for giving change - eg spending 15p and working out change from a 20 p coin |

# Class 2 (Upper Key Stage 2) - Spring Term - Statistics <br> Small Steps Skills 

| P Step 4 and P Step 5 | Picks up and puts down single objects - Holds two objects at a time - Puts down an object in order to pick up another - Collects objects that interest them - Enjoys helping an adult count objects - Follows a counting sequence - Enjoys number rhymes and finger games - Joins in actions in number rhymes and finger games - Assists with one-one matching activities - Uses numbers when playing Holds up a single finger on request - Holds up two fingers on request - Indicates 1 object - Indicates 2 objects - Makes a group one 1 object - Makes groups of 2 - Makes groups of 'lots' |
| :---: | :---: |
| P Step 6 and P Step 7 | Joins in rote counting to 10 - Counts up to 5 independently - Points to objects as they count - Counts up to 5objects - Puts 5 objects out on request - Matches numerals to 5 - Joins in number rhymes - Plays game using dice with 0 to 5 spots - Identifies numerals up to 3 - Names numerals to 5 - Sequences numbers to 5 - Puts quantities onto numerals - Matches numerals to quantities - Compares 2 sets of counters (up to 5) pointing to the group that is; smaller /larger/greater/fewer/more /less |
| P Step 8 | Uses models or objects to indicate own family - Records data through pictures eg sun/rain - recognizes links between objects eg car/garage, leaf/tree - Names a set of children eg those wearing brown shoes - Completes a tally chart with assistance - Makes a pictogram - Compares data in a pictogram or tally chart - Estimates how many bricks in a container - Estimates how many class mates had breakfast |
| Step 1 | Puts out quantities to 10 - Records data through pictures eg weather information using pictures of the sun and rain |
| Step L2 | Demonstrates an understanding that the number of objects remains the same when they are rearranged providing nothing has been added or taken away - Sorts objects by given criteria - Selects criterion and sorts objects - Observes the use of list, records etc Extracts simple information from a pictogram or bar graph |
| Step U2 | Counts objects in each category to find the total - Sorts categories by quantity - Compares categorical information - Sorts objects using more than one criteria - Defines the category they want to use to collect specific data - Discusses information collected Solves questions relating to totaling - Organises data - Suggests how they can represent information they have researched Interprets and constructs simple pictograms, tally charts, block diagrams and simple tables - Checks that the results help to answer the original question - Answers questions about the results |

## Class 2 (Upper Key Stage 2) - Spring Term - Measurement - Length and Perimeter Small Steps Skills

| P Step 4 and $P$ Step 5 | Matches objects by size - Makes choices based on length - Makes choices based on height - Identifies larger/smaller shapes/objects - choice of 2 - Gives the biggest/smallest on request - choice of 2 - Sorts by size - Finds two objects the same size |
| :---: | :---: |
| P Step 6 and $P$ Step 7 | Puts objects in lines - Points to big/little, smallest/largest and larger/smaller when asked - Uses language such as; hard/soft, long/short, big/small, thick/thin, wide/narrow, high/low - Orders according to length - Finds 2 rods the same length - Orders 3 objects by size - Sorts by given or own criteria - Finds smallest/largest on request |
| P Step 8 | Finds objects which are longer/shorter than a specified item - Identify the largest/smallest object from a group |
| Step 1 | Uses parts of the body to measure objects eg spans - Uses strides to measure length of a room - Compares length and height Describes length and height - Estimates height using non-standard units - Uses cubes/matches to measure objects - Compares length of two objects measured with cubes/matches - Solves practical problems involving height and length - Measures with a ruler with support |
| Step L2 | Suggest suitable units to measure an object - Recognise a range of standard measuring tools - Draws along a straight edge - Makes a simple measuring device - Discuss the problems of using non-standard units - Describe objects as longer or shorter than a ruler |
| Step U2 | Knows 1 metre $=100$ centimetres - Describes an object as longer or shorter than a standard measure using >, < and = - Measures in centimetres using a ruler - Uses a metre rule to measure in units of 10 cms - Understands the need to identify the unit used when recording - Chooses and uses appropriate standard units to estimate and measure length and height - Measures to the nearest unit Measures the perimeter of a simple shape |


| P Step 4 and $P$ Step 5 | Holds two objects at a time - Communicates 'gone' or 'all gone' - Uses objects with multiple parts - Follows counting sequence Makes groups of 2 - Relates commonly associated objects eg gloves for hands - Brings both shoes when asked - Makes groups of two - Makes groups of three - Gives to things to each person in a group |
| :---: | :---: |
| P Step 6 and $P$ Step 7 | Completes a 3 piece form board - One to one matching - Matches pictures to pictures - Identifies and requests more when there are too few objects to complete 1 to 1 matching - Puts quantities onto numerals - Matches numerals to quantities - Compares 2 sets of counters (up to 5) pointing to the group that is; smaller /larger/greater/fewer/more /less |
| P Step 8 | Talks about half of something |
| Step 1 | Can halve numbers to 10 - Shares concrete objects between a given number - Attempts to fold paper in half - Colours in half a shape - Colours in quarter of a shape - Uses the term half - Finds half of a set of objects - Finds half of a shape - Shares objects into equal groups - Shares a group of objects into 4 equal parts Uses the term quarter - Colours in quarter of a shape Divides groups of objects into half |
| Step L2 | Recalls half of any even number to 20 - Recognises, finds and names a half as 1 of 2 equal parts of an object, shape or quantity Knows two halves make a whole - Finds half a length up to 100 cm -Recognises and writes the symbols $\frac{1}{2}$ and $\frac{1}{4}$ - Identifies halves and quarters of shaded objects - Finds a quarter of a set of objects |
| Step U2a | Finds a half and quarter of a set of objects - Finds half and quarter of a shape - Finds half and quarter of a length up to 100 cm - Reads and writes $\frac{1}{2}$ - Reads and writes $\frac{1}{4}$ - Recognises fractions $2 / 4, \frac{3}{4}, 1 / 3$ and $2 / 3$ - Demonstrates that $\frac{1}{2}=2 / 4$ - Counts in fractions to 10 starting at any number, and using the $\frac{1}{2}$ and $2 / 4$ equivalence on the number line - Connects unit fractions to equal sharing and grouping |



# Class 2 (Upper Key Stage 2) - Summer Term - Number: Fractions <br> Small Steps Skills 

| P Step 4 and $P$ Step 5 | Holds two objects at a time - Communicates 'gone' or 'all gone' - Uses objects with multiple parts - Follows counting sequence Makes groups of 2 - Relates commonly associated objects eg gloves for hands - Brings both shoes when asked - Makes groups of two - Makes groups of three - Gives to things to each person in a group |
| :---: | :---: |
| P Step 6 and $P$ Step 7 | Completes a 3 piece form board - One to one matching - Matches pictures to pictures - Identifies and requests more when there are too few objects to complete 1 to 1 matching - Puts quantities onto numerals - Matches numerals to quantities - Compares 2 sets of counters (up to 5) pointing to the group that is; smaller /larger/greater/fewer/more /less |
| P Step 8 | Talks about half of something |
| Step 1 | Can halve numbers to 10 - Shares concrete objects between a given number - Attempts to fold paper in half - Colours in half a shape - Colours in quarter of a shape - Uses the term half - Finds half of a set of objects - Finds half of a shape - Shares objects into equal groups - Shares a group of objects into 4 equal parts Uses the term quarter - Colours in quarter of a shape Divides groups of objects into half |
| Step L2 | Recalls half of any even number to 20 - Recognises, finds and names a half as 1 of 2 equal parts of an object, shape or quantity Knows two halves make a whole - Finds half a length up to 100 cm -Recognises and writes the symbols $\frac{1}{2}$ and $\frac{1}{4}$ - Identifies halves and quarters of shaded objects - Finds a quarter of a set of objects |
| Step U2a | Finds a half and quarter of a set of objects - Finds half and quarter of a shape - Finds half and quarter of a length up to 100 cm - Reads and writes $\frac{1}{2}$ - Reads and writes $\frac{1}{4}$ - Recognises fractions $2 / 4, \frac{3}{4}, 1 / 3$ and $2 / 3$ - Demonstrates that $\frac{1}{2}=2 / 4$ - Counts in fractions to 10 starting at any number, and using the $\frac{1}{2}$ and $2 / 4$ equivalence on the number line - Connects unit fractions to equal sharing and grouping |
| Step U2b | Demonstrates understanding that a tenth is one part of a whole that has been divided into ten equal parts - Connects tenths to decimals - Recognises and writes down the fractions of a discrete set of objects - Compares and orders unit fractions Recognises common equivalent fractions - Adds and subtracts fractions with the same denominator - Finds a fraction of a quantity eg $\frac{1}{4}$ of 12 |

Class 2 (Upper Key Stage 2) - Summer Term - Measurement: Time

## Small Steps Skills

| P Step 4 and P <br> Step 5 | Demonstrates awareness of whether it is light or dark - Makes objects move faster or slower - Accepts changes in activity during <br> the day - Shows anticipation of favored activities - Recognizes daily routines - Watches sand timer |
| :--- | :--- |
| P Step 6 and P <br> Step 7 | Sequences 3 pictures of daily events eg first, breakfast, then go to school - Correctly uses the language before/after, day/night, <br> now/later - Moves objects slowly/quickly on request - Moves self slowly/quickly on request |
| P Step 8 | Sequences 4 pictures of daily events - Uses language for times of the day; morning, afternoon, meal time, bed time, day, night - <br> Rote chants days of the week - Identifies some of the days of the week - Discuss what time key things happen in the day |
| Step 1 | Knows the days of the week in order - Names tomorrow - Names yesterday - Knows in which month their birthday occurs - Says the <br> months of the year in rote - Measures and begins to record time in minutes or seconds - Sequences events in chronological order - <br> Recognises language relating to dates - tells the time to the hour and half hour and draws hands on a clock face - Recognises the <br> difference between clockwise and anticlockwise - Solves practical problems involving time |
| Step L2 | Names the days that make the weekend - Names and sequences the seasons of the year - Relates time of day to events - Solves <br> simple problems related to hours, half hours and quarter hours - Reads hours and half hours on a digital clock - Counts the seconds <br> in time with a clock - States how many hours there are in a day - States how many minutes there are in an hour - States how many <br> seconds there are in a minute - Recites the months of the year - Reads quarter hours on an analogue clock - Estimates how long a <br> familiar task will take |
| Step U2 | Compares intervals of time eg 20 minutes and a quarter of an hour using >, < and = - Sequences intervals of time - Reads a clock <br> showing quarter past and quarter to the hour - Draws the hands on the clock to show quarter past and quarter to - tells the time in <br> 5 minute intervals - Draws the hands on a clock to show the time in five minute intervals |

# Class 2 (Upper Key Stage 2) - Summer Term - Geometry - Properties of Shape Small Steps Skills 

| P Step 4 and P <br> Step 5 | Handles shapes - Rolls/slides shapes - Presses buttons - Feels textures of surfaces - Builds with bricks - Knocks down bricks - <br> Assembles simple construction materials - Uses, sand, modelling dough and pliable materials - Puts pegs in peg boards - Finds <br> objects that are the same - Finds objects with a specific characteristic eg an object that is green - Matches pairs of objects - <br> Matches objects/picture and pictures/pictures - Sorts by colour - Sorts by function |
| :--- | :--- |
| P Step 6 and P <br> Step 7 | Completes a 3 piece form board - Matches 2D shapes - Copies simple line pattern of six bricks, 2 colours - Finds all the circles in a <br> tray of shapes - Puts pegs in a peg board in order of size - Copies a circle shape - Traces large shapes - Places correct shapes in a <br> shape sorter - Matches simple abstract shapes - Selects a specific shape from a collection - Makes geometric shapes with pictures <br> of shapes - Joins dots to draw a square, a triangle - Explores which 3D shapes roll - Makes patterns with 2D shapes - Matches <br> objects according to shape disregarding size - Finds shapes from description eg with straight edges - Finds common attributes |
| P Step 8 | Handles shapes and describes them by number of sides and corners - Copies shapes - Sorts 3D objects - Identifies objects from a <br> choice of 3 - Copies patterns made with 2D shapes - Names objects as same or different |
| Step 1 | Names common 2-D shapes; rectangle/square/circle/triangle - Names common 3-D shapes; cuboid/sphere/cube/pyramid - <br> Recognises common 2-D shapes in objects - Recognises common 3-D shapes in common objects - Recognises 2-D and 3-D shapes in <br> different orientation and size - Creates a range of patterns using shapes - Describes a range of patterns using shapes - matches <br> shapes regardless of size |
| Step L2 | Describes shapes by the number of faces, edges and corners - Recognises shapes they cannot see but can feel - Investigates which <br> 3D shapes roll or slide - Makes pictures using 2D shapes - Creates repeat patterns - Observes shapes in nature - Identifies and <br> describes: pyramids, prisms, hemisphere - Names, draws and describes: square, rectangle, circle, triangle, pentagon, hexagon, <br> decagon - Uses construction equipment to build 3D shapes - Records which 2D shapes were used to build 3D shapes |
| Step U2 | Demonstrates the vertical line of symmetry in a 2D shape - Knows the number of edges, vertices and faces in a 3D shape - Sorts <br> and compares common 2D and 3D shapes - Draws lines and shapes using a straight edge - Spells the names of common shapes |

# Class 2 (Upper Key Stage 2) - Summer Term - Measurement: Mass, Capacity and Temperature Small Steps Skills 

| P Step 4 and $P$ Step 5 | Picks up and moves objects - Holds objects in their hands - Fills a container - Stops trying to drink when cup is empty - Stops trying to feed when the plate is empty - Puts stones in water - Understands heavy/light - Interacts with water/sand filling and emptying containers - Pours from one container to another with little spillage - Feels ice, warm liquids, cold liquids, hot foods - Describes temperature in terms of hot and cold |
| :---: | :---: |
| P Step 6 and $P$ Step 7 | Compare weight of 2 objects - Uses the language heavy/light - Identifies which container has more/less liquid - Correctly uses language heavy/light, heavier/lighter - From a choice of 2, finds the heavier/lighter object Balances objects on a weighing scales Correctly uses the language full/empty, more/less - Finds out which container holds the most/the least - Shows awareness of danger when objects are hot - Knows that things melt - Uses comparative terms; hotter/colder, warmer/ cooler - looks at a thermometer |
| P Step 8 | Finds objects which are heavier/lighter than a specified object - Compares containers; which holds more/less - Estimate number of cubes in a container - Count cubes in a container - Knows the sun makes warmth - Explains that ice and snow melt - Compares night and day temperatures |
| Step | Uses a balance to find out which object is heavier - Weighs an object using non-standard units eg cubes - Compares weight and size Compares mass/weight - Describes mass/weight - Uses term; heavy, light, heavier than/lighter than - Measures and begins to record mass and weight using standard units with support - Puts 4 containers in order of size - calculates capacity using non-standard units Compares and describes capacity and volume - Uses terms; full, empty, more then, less than, half, half full, quarter - Records their measurements of volume/capacity in terms of the units used eg cups - Begins to use containers to compare capacity - Names some objects that can be hot/cold - Compares the temperature of water using their hands/feet |
| Step L2 | Suggests suitable units to weigh an object or measure capacity - Becomes aware of standard units for weight - Recognises some standard units used to measure capacity - Observes weather - Lists where they may see objects being weighed - Discusses different types of scales - Handles and discusses objects that weigh more or less than a kilogram - Lists liquids that come in standard measures - Identifies containers that hold more or less than a litre - Lists equipment that heats or cools food and objects |
| Step U2 | Knows 1 kilogram = 1000 grams, 1 litre $=1000$ millilitres - Describes an objects as heavier or lighter than a standard measure - Finds the weight of objects up to 100 grams - Describes an object as holding more or less than a standard measure - Chooses and uses appropriate standard units to estimate and measure temperature - Measures temperature using a thermometer with some accuracy Compares, orders and records temperature using <, > and = |

