

Knypersley First School



Mathematics coverage EYFS – Year 6



Year group Nursery- Mathematics

| Tour group it are | ery- Matriematics |
|---|---|
| Number | Shape, Space and measure |
| I can recite numbers in order to 10 (30-50m). | I show an interest in shape and space by playing with shapes or making |
| | arrangements with objects (30-50m). |
| I know that numbers identify how many objects are in a set (30-50m). | I can use positional language (30-50m). |
| Beginning to represent numbers using fingers, marks on paper or pictures (30-50m). | I can use shapes appropriately for tasks (30-50m). |
| I sometimes matches numeral and quantity correctly (30-50m). | I am beginning to talk about the shapes of everyday objects, e.g. 'round' |
| | and 'tall' (30-50m). |
| I can compares two groups of objects, saying when they have the same number (30-50m). | |
| , | |
| I show an interest in number problems (30-50m). | |
| I can separate a group of three or four objects in different ways, beginning | |
| to recognise that the total is still the same (30-50m). | |
| I can show an interest in numerals in the environment (30-50m). | |
| I show an interest in representing numbers (30-50m). | |
| I can realise not only objects, but anything can be counted, including | |
| steps, claps or jumps (30-50m). | |



| l will learn | I will learn |
|---|--|
| How to recite numbers to 10 How numbers identify 'how many' in a set. How to match numbers (numerals) and quantities How to represent numbers using fingers, marks on paper, fingers, objects etc How to show an interest in solving problems How to separate objects in different ways and recognise that the total is always the same. How to show an interest in numerals around the environment How to recognise numerals around the environment How to represent numbers How to count in different ways ie claps, jumps etc | How to show an interest in shapes and discuss some properties How to make arrangements with shapes and objects How to sort some shapes. How to use positional language – up, down etc How to use shapes appropriately during tasks How to use the language around shapes of everyday objects ie round, tall |





Reception Guidance



#MathsEveryoneCan



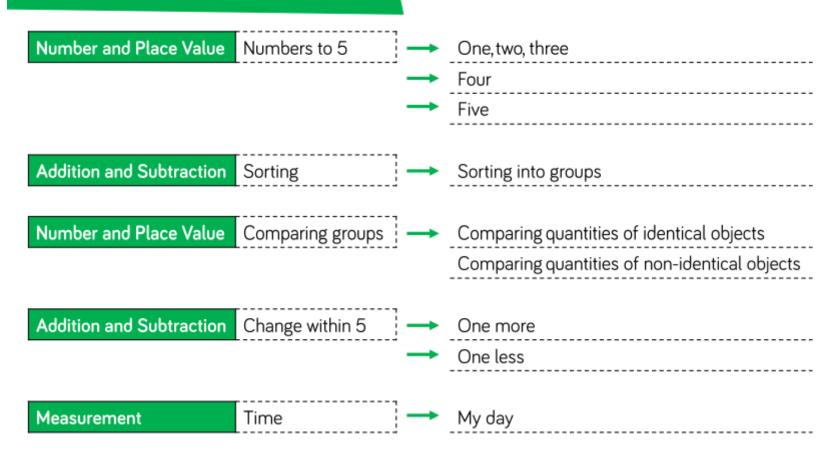
| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|--------|--|--------|--------|--------|-----------------------------------|---------------------------------------|--|-----------------------------------|--------|---------|---------|---------|
| Autumn | Place Value - Numbers to 5 Addition and Subtraction - Sorting Place Value - Comparing groups Addition and Subtraction - Change within 5 Measurement - Time | | | | | | | | | | | |
| Spring | Addition and Subtraction - Numbers to 5 Place Value - Numbers to 10 Addition and Subtraction - Addition to 10 Geometry - Shape and space | | | | | | | | | | | |
| Summer | | | | | dition and Plac tiplication | Subtracti e Value - I and Divis | ploring pat on - Count Numbers t Ion - Nume nt - Measu | t on and b o 20 erical patt | | | | |



Reception - Notes and guidance



Autumn Progression





Reception - Notes and guidance



Spring Progression

| Addition and Subtraction Numbers to 5 | Number bonds to 5 |
|---|---|
| Number and Place Value Numbers to 10 | Counting to 6, 7 and 8Counting to 9 and 10Comparing groups up to 10 |
| Addition and Subtraction Addition to 10 | Combining two groups to find the whole Number bonds to 10 – ten frame Number bonds to 10 – part-whole model |
| Geometry Shape and space | Spatial awareness 3-D shapes 2-D shapes |



Reception - Notes and guidance



Summer Progression

| Geometry | Exploring patterns | → | Making simple patterns Exploring more complex patterns |
|-----------------------------|--------------------|--------------|--|
| Addition and Subtraction | Count on and back | → | Adding by counting on Taking away by counting back |
| Number and Place Value | Numbers to 20 | → | Counting to 20 |
| Multiplication and Division | Numerical patterns | → → → | Doubling Halving and sharing Odds and evens |
| Measurement | Measure | → → → | Length, height and distance Weight Capacity © White Rose Maths |



Year 1

Small Steps Guidance and Examples





Year 1 - Yearly Overview

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|--------|---------------|--|----------------------|----------|----------------|--|--|--------|-------------------------|----------------------|--------------------------|---------------|
| Autumn | ı | | Place Valu in 10) | e | Numbe | Number: Addition and Subtraction (within 10) | | | | Numbe Va (with | Consolidation | |
| Spring | Number | | n and Sub in 20) | traction | (Multip | Number: Place Value (within 50) (Multiples of 2, 5 and 10 to be included) | | | rement: h and ght | Weigl | rement: ht and ume | Consolidation |
| Summer | a (Reinfor | er: Multip nd Divisio rce multip 0 to be in | on oles of 2, | | nber: tions | Geometry: position and direction | Number: Place Value (within 100) | | Measurement : money | Time | | Consolidation |



Year 1 - Autumn Term

| Week 1 Week 2 Week 3 Week 4 | Week 5 Week 6 Week 7 Week 8 | Week 9 | Week 10 Week 11 | Week 12 |
|---|---|---|---|---------------|
| Number: Place Value Count to ten, forwards and backwards, beginning with 0 or 1, or from any given number. Count, read and write numbers to 10 in numerals and words. Given a number, identify one more or one less. Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least. | Number: Addition and Subtraction Represent and use number bonds and related subtraction facts within 10 Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs. Add and subtract one digit numbers to 10, including zero. Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations and missing number problems. | Geometry: Shape Recognise and name common 2-D shapes, including: (for example, rectangles (including squares), circles and triangles) Recognise and name common 3-D shapes, including: (for example, cuboids (including cubes), pyramids and spheres.) | Number: Place Value Count to twenty, forwards and backwards, beginning with 0 or 1, from any given number. Count, read and write numbers to 20 in numerals and words. Given a number, identify one more or one less. Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least. | Consolidation |



Year 1 - Spring Term

| Week 1 Week 2 Week 3 Week | 4 Week 5 Week 6 Week 7 | Week 8 Week 9 | Week 10 Week 11 | Week 12 |
|---|--|---|---|---------------|
| Number: Addition and Subtraction Represent and use number bonds and related subtraction facts within 20 Read, write and interpret mathematical statements involve addition (+), subtraction (-) and equals (=) signs. Add and subtract one-digit and two-digit numbers to 20, including zero. Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 – 9 | numerals. Given a number, identify one more or one less Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal | Measurement: Length and Height Measure and begin to record lengths and heights. Compare, describe and solve practical problems for: lengths and heights (for example, long/short, longer/shorter, tall/short, double/half) | Measurement: Weight and Volume Measure and begin to record mass/weight, capacity and volume. Compare, describe and solve practical problems for mass/weight: [for example, heavy/light, heavier than, lighter than]; capacity and volume [for example, full/empty, more than, less than, half, half full, quarter] | Consolidation |



Year 1 - Summer Term

| Week 1 Week 2 Week 3 | Week 4 Week 5 | Week 6 | Week 7 Week 8 | Week 9 | Week 10 Week 11 | Week 12 |
|---|---|--|---|--|--|---------------|
| Number: Multiplication and Division Count in multiples of twos, fives and tens. Solve one step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher. | Number: Fractions Recognise, find and name a half as one of two equal parts of an object, shape or quantity. Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity. Compare, describe and solve practical problems for: lengths and heights (for example, long/short, longer/shorter, tall/short, double/half) Compare, describe and solve practical problems for: mass/weight [for example, heavy/light, heavier than, lighter than]; capacity and volume [for example, full/empty, more than, less than, half, half full, quarter] | Geometry: position and direction Describe position, direction and movement, including whole, half, quarter and three quarter turns | Number: Place Value Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number. Count, read and write numbers to 100 in numerals. Given a number, identify one more and one less. Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than, most, least. | Measuremen t: Money Recognise and know the value of different denominatio ns of coins and notes. | Measurement: Time Sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening. Recognise and use language relating to dates, including days of the week, weeks, months and years. Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times. Compare, describe and solve practical problems for time [for example, quicker, slower, earlier, later] Measure and begin to record time (hours, minutes, seconds) | Consolidation |



Year (2)

Small Steps Guidance and Examples





Year 2 - Yearly Overview

| | Week1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 | |
|--------|---------------------------------------|------------------------------|--------------|--------|----------|---------------------------------|---|--------|-------------------|----------------|-------------------------------------|---------------|--|
| Autumn | F | Number: Place valu | | Nu | mber: Ad | ldition and | l Subtract | iion | | rement: ney | Number: Multiplication and Division | | |
| Spring | Multipl | nber: lication ivision | Stati | stics | Geome | eometry: Properties of Shape | | | Number: Fractions | | | Consolidation | |
| Summer | Problem solving and efficient methods | | g and ent | | | | Measurement: Mass, Capacity and Temperature | | | Investigations | | | |



Year 2 - Autumn Term

| Week 1 Week 2 Week 3 | Week 4 Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|--|--|---|--|---|---|---|--|--|
| Number – Place Value Read and write numbers to at least 100 in numerals and in words. Recognise the place value of each digit in a two digit number (tens, ones) Identify, represent and estimate numbers using different representations including the number line. Compare and order numbers from 0 up to 100; use <, > and = signs. Use place value and number facts to solve problems. Count in steps of 2, 3 and 5 from 0, and in tens from any number, forward and backward. | Number – Addition and Subt Recall and use addition and suse related facts up to 100. Add and subtract numbers urepresentations, and mental two-digit number and tens; thumbers. Show that the addition of two (commutative) and subtraction pictorial representations, including and measures; applying their methods. Recognise and use the inversibility and use this to coproblems. | ubtraction facts sing concrete ob y, including: a tv wo two-digit nur o numbers can b on of one number and subtraction luding those inve- increasing know | jects, pictorial vo-digit number mbers; adding the ee done in any o er from another a: using concrete plying numbers, wledge of menta | and ones; a nree one-digit order cannot. e objects and quantities I and written | combine amor particular valu Find different | d use symbols and pence (p); unts to make a ue. combinations equal the same oney. croblems in a ext involving subtraction of same unit, | recognising od numbers. Calculate math statements for and division wimultiplication them using the (x), division (+) sign. Solve problems multiplication using materials repeated addit methods and n division facts, i problems in co | multiplication cts for the 2, 5 ables, including d and even multiplication thin the tables and write multiplication and equals (=) s involving and division, s, arrays, ion, mental multiplication and ncluding ntexts. multiplication of can be done in mutative) and number by |



Year 2 - Spring Term

| Week 1 Week 2 | Week 3 Wee | 4 Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|---|--|--|--|--|---|--|---|---|---------------|
| Multiplication and Division Recall and use multiplication and division facts for the 2, 5 and 10 times tables, including recognising odd and even numbers. Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (+) and equals (=) signs. Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts. Show that the multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot. | Statistics Interpret and construct simple pictograms, tall charts, block diagrams simple tables. Ask and answer simple questions by counting number of objects in excategory and sorting the categories by quantity. Ask and answer questing about totalling and comparing categorical | Identify and of shapes, included in the symmetry and of shapes, included vertices and finds the shapes, included t | operties of shape lescribe the prope ling the number of y in a vertical line. lescribe the prope ling the number of aces. hapes on the surfa example, a circle of on a pyramid.] sort common 2-D veryday objects. | erties of 2-D of sides and erties of 3-D of edges, ace of 3-D n a cylinder | $\frac{1}{4'}\frac{2}{4}$ and $\frac{3}{4}$ of a quantity. Write simple fi | tions d, name and writh length, shape, see fractions for exarthe equivalence | et of objects or mple, $\frac{1}{2}$ of $6 = 3$ | Measurement: length and height Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/m) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels Compare and order lengths, mass, volume/capacit y and record the results using >, < and = | Consolidation |



Year 2 - Summer Term

| Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|--|--|--|----------------------------------|--------|--|---|---|---|--|---------|----------------|
| position, dire including mo distinguishing and in terms half and thre and anti-cloc | atical vocabulary ction and move vement in a stra 3 between rotati of right angles fi e-quarter turns | ment ight line and ion as a turn or quarter, (clockwise ons of | Problem solvii Efficient meth | | Measurement Tell and write five minutes, quarter past, and draw the clock face to times. Know the numinutes in an the number of day. Compare and intervals of times. | e the time to including /to the hour e hands on a show these mber of a hour and of hours in a | Choose and u units to estim length/height mass (kg/g); t (litres/ml) to t using rulers, s measuring ver | se appropriate ate and measu in any directio emperature (*C the nearest app cales, thermon ssels order lengths, city and record | standard re n (m/cm); c); capacity propriate unit, neters and | | Investigations |





Small Steps Guidance and Examples





Year 3 - Yearly Overview

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|--------|--------|----------------------------|--------|-----------------------|------------------|-------------|-----------|-----------------------------|--------|--------------------------|---------|---------------|
| Autumn | Numb | er – Place | Value | Nur | mber – Ad | Idition and | d Subtrac | tion | | r – Multip nd Divisio | | Consolidation |
| Spring | | er - Multipl nd Divisio | | Measurement: Money | Stati | stics | | ement: ler perimeter | | Num Frac | | Consolidation |
| Summer | Num | ber – frac | tions | Me | easureme Time | nt: | Prope | netry – rties of apes | | easureme s and Cap | | Consolidation |



Year 3 - Autumn Term

| Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 | |
|--------------------------------|--|----------------------|---------------|-----------------|--------------------|---------------------------------------|------------|---|--|-------------------------------------|-------------------------------|--|
| | e <u>Value</u> sent and estimat representations | | Add and subtr | | ntally, including: | a three-digit nur git number and h | | | iplication and Div | | | |
| number | more or less tha | ŭ | methods of co | lumnar addition | and subtraction | | | Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. Write and calculate mathematical statements for | | | | |
| three-digit nun | ognise the place value of each digit in a e-digit number (hundreds, tens, ones). Estimate the answer to answers. Solve problems, includi | | | | | · | | multiplication a they know, incl | alate mathematic and division using uding for two-dig mental and prog | g the multiplica git numbers tim | ation tables nes one-digit | |
| Read and write | Compare and order numbers up to 1000 Read and write numbers up to 1000 in numerals and in words. | | | nd more complex | | | ber racis, | methods. | , including missin | | | |
| Solve number prinvolving these | • | actical problems | | | | | | integer scaling p | olication and divis problems and con are connected to | respondence p | problems in | |
| Count from 0 i | n multiples of 4, | 8, <u>50 and 100</u> | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |



Year 3 - Spring Term

| Week 1 Week 2 Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|---|--|---|--|--|--|--------------------------------|--|---|---------------|
| Number — multiplication and division Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods. Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objectives. | Measuremen t - money Add and subtract amounts of money to give change, using both f and p in practical contexts. | Statistics Interpret and pusing bar chart and tables. Solve one-step questions [for many more?' a fewer?'] using presented in so charts and pict tables. | and two-step example, 'How and 'How many information caled bar | Measure, comp (m/cm/mm); n (l/ml). | elength and peri pare, add and su nass (kg/g); volui erimeter of simp | btract: lengths me/capacity | recognise that from dividing a 10 equal parts one-digit numl quantities by 1 | down in tenths; tenths arise in object into and in dividing bers or 0 use fractions as fractions and ons with small d and write liscrete set of actions and ons with small | Consolidation |



Year 3 - Summer Term

| Week 1 Week 2 Week 3 | Week 4 Week | 5 Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|---|---|---|---|---|--------------|--|----------|---------------|
| Number – fractions Recognise and show, using diagrams, equivalent fractions with small denominators. Compare and order unit fractions, and fractions with the same denominators. Add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$] Solve problems that involve all of the above. | Measurement – time Tell and write the time fro including using Roman nu and 12-hour and 24-hour Estimate and read time wi accuracy to the nearest m Record and compare time minutes and hours. Use vocabulary such as o' morning, afternoon, noon Know the number of seco the number of days in each leap year. Compare durations of eve calculate the time taken b tasks]. | merals from I to XII clocks. th increasing inute. in terms of seconds, clock, a.m./p.m., and midnight. ands in a minute and h month, year and | of shape or a d turn. Identify right a that two right a half-turn, three quarters of a to complete turn; whether angles than or less that Identify horizon lines and pairs perpendicular a lines. | les as a property lescription of a Ingles, recognise angles make a angles make a a make three urn and four a identify s are greater an a right angle. Intal and vertical of and parallel es and make 3- modelling shapes in tations and | Measure, com | :— mass and capa npare, add and si /mm); mass (kg, city (I/ml). | ubtract: | Consolidation |





Small Steps Guidance and Examples





Year 4 - Yearly Overview

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|--------|--------|--------------------------|-----------|-----------------------|-------------------------------------|--------|--------|------------------------------------|--------------------|--|--|---------------|
| Autumn | ı | Number – | Place Val | ue | Number- Addition and Subtraction | | | Measurement - Length and Perimeter | | Number- Multiplication and Division | | |
| Spring | | er- Multip nd Divisio | | Measurement - Area | | Frac | tions | | Decimals | | | Consolidation |
| Summer | Deci | mals | | rement- oney | Time | Stat | istics | Geomet | ry- Prope Shape | erties of | Geometry- Position and Direction | Consolidation |



Year 4 - Autumn Term

| Week 1 Week 2 Week 3 Week 4 | Week 5 Week 6 Week 7 | Week 8 Week 9 Week 10 Week 11 | Week 12 |
|---|---|--------------------------------------|---------------|
| Count in multiples of 6, 7, 9. 25 and 1000. Find 1000 more or less than a given number. Recognise the place value of each digit in a four digit number (thousands, hundreds, tens and ones) Order and compare numbers beyond 1000 Identify, represent and estimate numbers using different representations. Round any number to the nearest 10, 100 or 1000 Solve number and practical problems that involve all of the above and with increasingly large positive numbers. Count backwards through zero to include negative numbers. Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value. | Number- Addition and Subtraction Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate. Estimate and use inverse operations to check answers to a calculation. Solve addition and subtraction two step problems in contexts, deciding which operations and methods to use and why. | Number - Multiplication and Division | Consolidation |



Year 4 - Spring Term

| Week | 1 Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|--|---|---|---|---|---|---|---|---|--|--|---------------|
| Recall and facts for multiply ar multiplying multiplying multiplying commutati Multiply tv by a one di layout. Solve prob adding, inc to multiply integer sca corresponde | multiplication and di use multiplication and ultiplication tables u value, known and de id divide mentally, ir is by 0 and 1; dividing it together three nun and use factor pairs vity in mental calcul vo digit and three di git number using for lems involving multi luding using the dist two digit numbers I ling problems and h lence problems and th lence problems auch ted to m objects. | nd division p to 12 × 12. rived facts to cluding: by 1; abers. and ations. git numbers mal written plying and ributive law by one digit, arder | Measurement- Area Find the area of rectilinear shapes by counting squares. | equivalent fr Count up and hundredths and dividing Solve proble calculate qua including not number. | d down in hundr arise when dividi tenths by ten. ms involving inco antities, and frac n-unit fractions v | iagrams, families edths; recognise ing an object by o reasingly harder i tions to divide qu where the answe | that one hundred fractions to nantities, r is a whole | any number o Find the effect number by 10 the digits in th hundredths Solve simple i involving fract decimal place Convert between | d write decimal er f tenths or hundi t of dividing a on or 100, identifying the answer as one measure and mo tions and decimals. | e or two digit ng the value of s, tenths and ney problems als to two | Consolidation |



Year 4 - Summer Term

| Week 1 Week 2 | Week 3 Week 4 Week | 5 Week 6 Week 7 | Week 8 Week 9 Week 10 | Week 11 | Week 12 |
|--|--|---|--|---|---------------|
| Decimals Compare numbers with the same number of decimal places up to two decimal places. Round decimals with one decimal place to the nearest whole number. Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$ Find the effect of dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths | Measurement- Money Estimate, compare and calculate different measures, including money in pounds and pence. Solve simple measure and money problems involving fractions and decimals to two decimal places. Read, write convert tin between analogue a digital 12-224-hour closs of the converting hours to minutes; minutes to seconds; yet or months; weeks to dispense of the converting hours to minutes; minutes to seconds; yet or months; weeks to dispense of the converting hours to minutes to seconds; yet or months; weeks to dispense of the converting hours to minutes to seconds; yet or months; weeks to dispense of the converting hours to minute the converting hours to minutes to seconds; yet or months; weeks to dispense of the converting hours to minute the converting ho | graphical methods, including bar charts and time graphs. Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs. and and bar charts and other graphs. | Geometry: Properties of shape Identify acute and obtuse angles and compare and order angles up to two right angles by size. Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. Identify lines of symmetry in 2-D shapes presented in different orientations. Complete a simple symmetric figure with respect to a specific line of symmetry. | Geometry- Position and Direction Describe positions on a 2-D grid as coordinates in the first quadrant. Plot specified points and draw sides to complete a given polygon. Describe movements between positions as translations of a given unit to the left/ right and up/ down. | Consolidation |





Small Steps Guidance and Examples





Year 5 - Yearly Overview

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|--------|--------|--------------------------|-----------|--------|-------------------------|---------------------|-----------|--|------------------------------|---------|---------------------------|---------------|
| Autumn | Numb | er – Place | · Value | | - Addition otraction | Stat | istics | Multip | ber – lication ivision | | eter and rea | Consolidation |
| Spring | | r – Multip nd Divisio | | | N | umber – I | Fractions | | | Decin | ber – nals & ntages | Consolidation |
| Summer | | Number - | - Decimal | 5 | Geomet | ry- Prope Shapes | rties of | Geometry- Position and Direction | Measur Converti | | Measures Volume | Consolidation |



Year 5 - Autumn Term

| Week 1 Week 2 Week 3 | Week 4 Week 5 | Week 6 Week 7 | Week 8 Week 9 | Week 10 Week 11 | Week 12 |
|--|--|---|--|---|---------------|
| Number – Place Value Read, write, order and compare numbers to at least 1000000 and determine the value of each digit. Count forwards or backwards in steps of powers of 10 for any given number up to 1000000. Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers including through zero. Round any number up to 1000000 to the nearest 10, 100, 1000, 10000 and 100000 Solve number problems and practical problems that involve all of the above. Read Roman numerals to 1000 (M) and recognise years written in Roman numerals. | Number- Addition and Subtraction Add and subtract numbers mentally with increasingly large numbers. Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. | Statistics Solve comparison, sum and difference problems using information presented in a line graph. Complete, read and interpret information in tables including timetables. | Number – multiplication and division Multiply and divide numbers mentally drawing upon known facts. Multiply and divide whole numbers by 10, 100 and 1000. Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. Recognise and use square numbers and the notation for squared (²) and cubed (³) Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes. Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers. Establish whether a number up to 100 is prime and recall prime numbers up to 19 | Perimeter and Area Measure and calculate the perimeter of composite rectilinear shapes in cm and m. Calculate and compare the area of rectangles (including squares), and including using standard units, cm², m² estimate the area of irregular shapes. | Consolidation |



Year 5 - Spring Term

| Week 1 Week 2 Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|--|--|---|--|---|---|---|--|--|---------------|
| Number – Multiplication and Division Multiply and divide numbers mentally drawing upon known facts. Multiply numbers up to 4 digits by a one or two digit number using a formal written method, including long multiplication for 2 digit numbers. Divide numbers up to 4 digits by a one digit number using the formal written method of short division and interpret remainders appropriately for the context. Solve problems involving addition and subtraction, multiplication and division and a combination of these, including understanding the use of the equals sign. | Identify, name tenths and hun Recognise mixe write mathema Add and subtra the same numb Multiply proper diagrams. Read and write Solve problems | rder fractions when the desired write equivaled this. It is a numbers and in tical statements of fractions with | lent fractions of mproper fraction >1 as a mixed nut the same denon ixed numbers by as as fractions [for all fraction and division and | a given fraction, as and convert fr umber [for exam ninator and deno whole numbers or example 0.71 | represented vision one form to ple $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$ ominators that a s, supported by $n = \frac{71}{100}$ | ually including the other and] re multiples of | Number: Decimals Read, write, order numbers with up to places. Recognise and use relate them to ten and decimal equiv Round decimals w places to the near number and to on Solve problems in up to three decimal. Recognise the per and understand the relates to 'number hundred', and write a fraction with decimal as a decimal. Solve problems with a fractions with a demultiple of 10 or 2 and 10 or 2 an | tand compare to three decimal ethousandths and oths, hundredths alents. White thousandths and oths, hundredths alents. White the decimal est whole the decimal place. Wolving number all places. Wolving number all places. Cent symbol (%) that per cent or of parts per the percentages as nominator 100, Thick require ge and decimal the first of the percentage and the per | Consolidation |



Year 5 - Summer Term

| Week 1 Week 2 Week 3 Week 4 | Week 5 Week 6 Week 7 | Week 8 | Week 9 Week 10 | Week 11 | Week 12 |
|--|---|---|--|---|---------------|
| Number: Decimals Solve problems involving number up to three decimal places. Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000. Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling. | Geometry- Properties of Shapes and Angles Identify 3D shapes, including cubes and other cuboids, from 2D representations. Use the properties of rectangles to deduce related facts and find missing lengths and angles. Distinguish between regular and irregular polygons based on reasoning about equal sides and angles. Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. Draw given angles, and measure them in degrees (°) Identify: angles at a point and one whole turn (total 360°), angles at a point on a straight line and ½ a turn (total 180°) other multiples of 90° | Geometry- position and direction Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed. | Measurement- converting units Convert between different units of metric measure [for example, km and m; cm and m; cm and m; cm and mm; cm and mm; cm and mm; cm and mm; cm and common imperial units and common imperial units such as inches, pounds and pints. Solve problems involving converting between units of time. | Measures Volume Estimate volume [for example using 1cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water] Use all four operations to solve problems involving measure. | Consolidation |



Year 6

Small Steps Guidance and Examples





Year 6 - Yearly Overview

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|--------|---|----------------------------|--------|--------|--------|--|------------------|----------|---------------|---------|---------------|---------|
| Autumn | Number- Place Number- Addition, Subtraction Value Multiplication and Division | | | | | Geometry- Position and Direction | | | | | Consolidation | |
| Spring | Number- Decimals Percentages | | | mber- | | nsurement meter, Area d Volume | | r- Ratio | Consolidation | | | |
| Summer | Prope | netry- rties of apes | | | Stati | istics | stics Investigat | | gations | gations | | |



Year 6 - Autumn Term

| Week 1 Week 2 | Week 3 We | ek 4 Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|---|---|---|---|--|--|--|---|--|---------------|
| Number: Place Value Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit. Round any whole number to a required degree of accuracy. Use negative numbers in context, and calculate intervals across zero. Solve number and practical problems that involve all of the above. | Number- addition subtract Solve addition and subtract Solve addition and subtract deciding which operation. Multiply multi-digit numb the formal written method Divide numbers up to 4 di formal written method of whole number remainder for the context. Divide numbers up to 4 di written method of short of to the context. Perform mental calculation large numbers. Identify common factors, Use their knowledge of th calculations involving the Solve problems involving division. Use estimation to check a the context of a problem, | ction multi step probler and methods to use at er up to 4 digits by a 2-d of long multiplication gits by a 2-digit whole r long division, and inters, fractions, or by round gits by a 2-digit number livision, interpreting reruns, including with mixe common multiples and e order of operations to four operations. | ms in contexts, and why. digit number using number using the pret remainders as ding as appropriate r using the formal mainders according d operations and prime numbers. o carry out nultiplication and and determine in | multiples to exp Compare and of Generate and of fractions) Add and subtramixed numbers Multiply simple in its simplest financial proper financial fraction equival fraction [for expectable and use of the compared in the c | press fractions in order fractions, in describe linear nutric fractions with s, using the concert pairs of properform [for example ractions by whole to the concert fractions of the concert for example $\frac{3}{8}$] equivalences between examples and the concert fractions by whole fractions by whole fractions with division lents [for example $\frac{3}{8}$] equivalences between except and the concert fractions of the concert fractions with division lents [for example $\frac{3}{8}$] equivalences between except and the concert fractions with the concert fractions are concert from the concert fractions and the concert fractions are concert fractions. | the same denoted the same denoted including fraction umber sequence of different denoted ept of equivaler fractions, writing $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$] where $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$ is an and calculate ole, 0.375] for a tween simple fractions are simple from the same denoted in the same denoted | omination. as > 1 es (with minations and at fractions. ag the answer example $\frac{1}{3} \div 2$ decimal simple actions, | Geometry- Position and Direction Describe positions on the full coordinate grid (all four quadrants). Draw and translate simple shapes on the coordinate plane, and reflect them in the axes. | Consolidation |



Year 6 - Spring Term

| Number: Decimals to the third in number: given to 3 decimal places and multiply numbers by 10, 100 and 1,000 giving answers up to 3 decimal places. Multiply one-digit numbers with up to 2 decimal places by whole numbers. Use written division methods in cases where the answer has up to 2 decimal places. Solve problems which require answers to be rounded to specified degrees of accuracy. Week 4 Week 5 Week 6 Week 7 Week 8 Week 9 Week 10 Week 12 Week 12 Week 11 Week 12 Week 12 Week 12 Week 12 Week 12 Week 12 Week 14 Week 12 Week 14 Week 12 Week 15 Week 16 Week 17 Week 8 Week 9 Week 10 Week 11 Week 12 Week 16 Week 17 Week 18 Week 19 Week 10 Week 11 Week 12 Week 16 Week 17 Week 18 Week 9 Week 10 Week 12 Week 12 Week 16 Week 17 Week 12 Week 16 Week 17 Week 12 Week 16 Week 17 Week 18 Week 19 Week 10 Week 12 Week 12 Week 10 Week 11 Week 12 Week 10 Week 10 Week 12 Week 10 Week 10 Week 12 Week 10 Week 10 Week 12 Week 10 Week 12 Week 10 Week 12 Week 10 Week 12 Week 10 Week 10 Week 10 Week 12 Week 10 Week 1 | | | | | | | |
|---|---|---|--|--|--|--|---------------|
| Identify the value of each digit in numbers given to 3 decimal places and multiply numbers by 10, 100 and 1,000 giving answers up to 3 decimal places. Multiply one-digit numbers with up to 2 decimal places by whole numbers. Use written division methods in cases where the answer has up to 2 decimal places. Solve problems involving the calculation of percentages in cluding in different contexts. Solve problems involving the decimal and such as 15% of 360] and the use of percentages for comparison. Recall and use equivalences between simple fractions, decimals and percentages in cases where the answer has up to 2 decimal places. Solve problems which require answers to be rounded to specified degrees of accuracy. Solve problems involving the generate and describe linear number sequences. Express missing number problems algebraically. Express missing number problems of measure, using decimal notation up to three decimal places where appropriate. Use written division methods in cases where the answer has up to 2 decimal places. Solve problems which require answers to be rounded to specified degrees of accuracy. Solve problems and division facts. Express missing number problems algebraically. Express missing number of measure, using decimal notation up to a proportiate. Express missing number problems with two unknowns. Express missing number problems algebraically. Express missing number problems and convertion of measure, using decimal notation up to a proportiate. Solve problems involving the calculation and convertion of measure, using decimal notation up to a proportiate. Express missing number problems algebraically. Express missing number problems algebraically. Express missing number problems and conversion of unit of measure, using decimal notation up to a problems and conversion of unit of measure of parallelograms and triangles. Solve problems | Week 1 Week 2 | Week 3 Week 4 | Week 5 Week 6 | Week 7 | Week 8 Week 9 | Week 10 Week 11 | Week 12 |
| | Identify the value of each digit in numbers given to 3 decimal places and multiply numbers by 10, 100 and 1,000 giving answers up to 3 decimal places. Multiply one-digit numbers with up to 2 decimal places by whole numbers. Use written division methods in cases where the answer has up to 2 decimal places. Solve problems which require answers to be rounded to | Solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison. Recall and use equivalences between simple fractions, decimals and percentages including in different | Use simple formulae Generate and describe linear number sequences. Express missing number problems algebraically. Find pairs of numbers that satisfy an equation with two unknowns. Enumerate possibilities of combinations of two | Converting Units Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate. Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3dp. Convert between miles and | Area and Volume Recognise that shapes with the same areas can have different perimeters and vice versa. Recognise when it is possible to use formulae for area and volume of shapes. Calculate the area of parallelograms and triangles. Calculate, estimate and compare volume of cubes and cuboids using standard units, including cm³, m³ and extending to other units | Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts. Solve problems involving similar shapes where the scale factor is known or can be found. Solve problems involving unequal sharing and grouping using knowledge | Consolidation |



Year 6 - Summer Term

| Week 1 Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|--|---------------|--------|--------|--|---|----------------|--------|---------|---------|---------------|
| Geometry: Properties of Shapes Draw 2-D shapes using given dimensions and angles. Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons. Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. | Problem Solvi | ing | | circles, includi diameter and and know that is twice the ra Interpret and charts and line | circumference t the diameter dius. construct pie e graphs and olve problems. | Investigations | | | | Consolidation |