Nursery MTP Overview
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|  | 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 <br> Starters: <br> Number songs | Colours <br> - Red <br> - Blue <br> - Yellow | Colours <br> - Green <br> - Purple <br> - Mix of colours | Match <br> - Buttons and colours <br> - Matching towers <br> - Matching shoes | Match <br> - Match number shapes <br> - Match shapes <br> - Pattern handprints - big and small | Sort <br> - Colour <br> - Size <br> - Shape | Sort <br> - What do you notice? <br> - Guess the rule <br> - Guess the rule | Number 1 <br> - Subitising <br> - Counting <br> - Numeral | Number 2 <br> Subitising- <br> dice pattern <br> Subitising- <br> random <br> pattern <br> Subitising - <br> different sizes | Number 2 <br> - Counting <br> - Numeral <br> - Numeral | Pattern <br> - Extend $A B$ Colour patterns <br> - Extend $A B$ Outdoor Patterns <br> - $A B$ Movement Patterns | - Fix my Pattern <br> - Extend ABC Colour patterns <br> - Extend ABC Outdoor Patterns | Consolidation <br> Activities - <br> Winter activity week |
| Spring <br> Starters: <br> Number <br> songs | Number 3 <br> Subitising <br> Subitising <br> Subitising | Number 3 <br> 3 Little pigs <br> 1:1 counting <br> Numerals/Tria ngles | Number 4 <br> 1:1 counting <br> Numerals <br> Squares/recta ngles | Number 4 Composition of 4 Composition of 4 Composition of 4 | Number 5 <br> 1:1 counting <br> Numerals <br> Pentagon | Number 5 Composition of 5 Composition of 5 Composition of 5 | $\begin{aligned} & \text { Consolidate } 1 \\ & -5 \end{aligned}$ | Number 6 Introduce 10 frame |  <br> Length <br> - Tall and short <br> - Long and short <br> - Tall/long and short | Mass <br> Relate to <br> books <br> 3 little pigs <br> goldilocks | Capacity | Consolidation |
| Summer <br> Starters subitising and revision | More than/fewer than | One more | One less | Shape-2D <br> Revisit pattern from <br> Autumn | Shape-3D <br> Revisit <br> pattern from <br> Autumn | Consolidation: More than/fewer one more and one less | Number composition 1-5 Revision | Night and Day <br> Order events in their day at nursery <br> Order events in their day at nursery <br> What happens day/night | Positional Language | Positional Language | Consolidation <br> \| Activity weeks <br> SUMMER | Consolidation \| Activity weeks |

## Overview

|  | Week | Week | Week | Week 4 | Week 5 | Week | Week | Week <br> ${ }_{8}$ | Week | Week | Week | Week | $\begin{gathered} \text { Week } \\ { }_{13} \end{gathered}$ | Week 14 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Getting to Know You |  |  | Just Like Me! |  |  | It's Me 12 3! |  |  | Light and Dark |  |  | Consolidation |  |
| io | Alive in 5! |  |  | Growing$6,7,8$ |  |  | Building 9 and 10 |  |  | Consolidation |  |  |  |  |
| $\begin{aligned} & \stackrel{\rightharpoonup}{\omega} \\ & \stackrel{y}{E} \\ & \stackrel{y}{n} \end{aligned}$ | To 20 and Beyond |  |  | First Then Now |  |  | Find My Pattern |  |  | On The Move |  |  |  |  |

## Autumn

| Week 1 | Week $2$ | Week 3 |  | Week $4$ | Week <br> 5 | Week 6 | Week $7$ | Week 8 | Week 9 | Week 10 | Week | Week 12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Getting to Know You |  |  | $\begin{gathered} 0 \\ 0 \\ 0 \\ \frac{0}{\square} \end{gathered}$ | Just Like Me! |  |  | It's Me 123 ! |  |  | Light and Dark |  |  |
| Opp settlin the ar and ge | ortunitie <br> in, intro as of pro ing to kn children. | for ucing vision ow the | $\begin{aligned} & \stackrel{\rightharpoonup}{\overline{0}} \\ & \frac{\text { E }}{5} \\ & \frac{1}{2} \end{aligned}$ | Match and Sort Compare Amounts |  |  | Representing 1, 2 \& 3 <br> Comparing 1, 2 \& 3 <br> Composition of $1,2 \& 3$ |  |  | Representing Numbers to 5. <br> One More and Less. |  |  |
| Key tim routin contin inside do th Posit | es of day <br> s. Explor <br> uous pro <br> and out. <br> ings bel <br> nal lang | class <br> ing the ision Where ng? uage. |  | Compare Size, Mass \& Capacity Exploring Pattern |  |  | Circles and Triangles Positional Language |  |  | Shapes with 4 Sides. Time |  |  |


|  | Week <br> 1 | Week 2 | Week 3 | Week <br> 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| U <br> ¢ <br> ¢ | Alive in 5! |  |  | Growing 6, 7, 8 |  |  | Building 9 \& 10 |  |  |
| $\begin{aligned} & \stackrel{\rightharpoonup}{\text { D/ }} \\ & \stackrel{\text { c}}{5} \\ & \hline \end{aligned}$ | Introducing zero <br> Comparing numbers to 5 <br> Composition of $4 \& 5$ |  |  | $6,7 \& 8$ <br> Combining 2 amounts Making pairs |  |  | Counting to $9 \& 10$ Comparing numbers to 10 Bonds to 10 |  |  |
|  | Compare Mass (2) Compare Capacity (2) |  |  | Length \& Height Time |  |  | 3d-shapes Patterns |  |  |


|  | Week 1 | Week 2 | Week 3 | Week <br> 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 0 \\ & \stackrel{0}{0} \\ & \frac{0}{\alpha} \end{aligned}$ | To 20 and Beyond |  |  | First Then Now |  |  | Find my Pattern |  |  | On the Move |  |  |
|  | Building Numbers Beyond 10 Counting Patterns Beyond 10 |  |  | Adding More <br> Taking Away |  |  | Doubling Sharing \& Grouping Even \& Odd |  |  | Deepening Understanding Patterns and Relationships |  |  |
|  | Spatial Reasoning (1) Match, Rotate, Manipulate |  |  | Spatial Reasoning (2) Compose and Decompose |  |  | Spatial Reasoning (3) <br> Visualise and Build |  |  | Spatial Reasoning (4) Mapping |  |  |

## Place value

## Place value: Count

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| - count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number <br> - Count numbers to 100 in numerals; count in multiples of twos, fives and tens | - count in steps of 2, 3, and 5 from 0 , and in tens from any number, forward and backward | - count from 0 in multiples of 4,8 , 50 and 100; find 10 or 100 more or less than a given number | - count in multiples of $6,7,9,25$ and 1000 <br> - count backwards through zero to include negative numbers | - count forwards or backwards in steps of powers of 10 for any given number up to 1 000000 <br> - count forwards and backwards with positive and negative whole numbers, including through zero |  |
| Autumn 1 <br> Spring 1 Spring 3 Summer 4 | Autumn 1 | Autumn 1 Autumn 3 | Autumn 1 Autumn 4 | Autumn 1 Summer 4 |  |

> Note - In the WRM schemes, negative numbers are introduced in Year 5

## Place value: Represent

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| - identify and represent numbers using objects and pictorial representations <br> - read and write numbers to 100 in numerals <br> - read and write numbers from 1 to 20 in numerals and words | - read and write numbers to at least 100 in numerals and in words <br> - identify, represent and estimate numbers using different representations, including the number line | - identify, represent and estimate numbers using different representations <br> - read and write numbers up to 1000 in numerals and in words | - identify, represent and estimate numbers using different representations <br> - 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 | - read, write, (order and compare) numbers to at least 1000000 and determine the value of each digit <br> - read Roman numerals to 1000 $(\mathrm{M})$ and recognise years written in Roman numerals | - read, write, (order and compare) numbers up to 10 000000 and determine the value of each digit |
| Autumn 1 <br> Spring 1 Spring 3 Summer 4 | Autumn 1 | Autumn 1 | Autumn 1 | Autumn 1 | Autumn 1 |

## Place value: Use and compare

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| - given a number, identify one more and one less | - recognise the place value of each digit in a two-digit number (tens, ones) <br> - compare and order numbers from 0 up to 100; use <, > and = signs | - recognise the place value of each digit in a three-digit number (hundreds, tens, ones) <br> - compare and order numbers up to 1000 | - find 1000 more or less than a given number <br> - recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) <br> - order and compare numbers beyond 1000 | - (read, write) order and compare numbers to at least 1000000 and determine the value of each digit | - (read, write), order and compare numbers up to 10000000 and determine the value of each digit |
| Autumn 1 <br> Spring 1 Spring 3 Summer 4 | Autumn 1 | Autumn 1 | Autumn 1 | Autumn 1 | Autumn 1 |

## Place value: Problems/Rounding

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | - use place value and number facts to solve problems | - solve number problems and practical problems involving these ideas | - round any number to the nearest 10,100 or 1000 <br> - solve number and practical problems that involve all of the above and with increasingly large positive numbers | - interpret negative numbers in context <br> - round any number up to 1 000000 to the nearest 10, 100, 1000, 10000 and 100000 <br> - solve number problems and practical problems that involve all of the above | - round any whole number to a required degree of accuracy <br> - use negative numbers in context, and calculate intervals across zero <br> - solve number and practical problems that involve all of the above |
|  | Autumn 1 | Autumn 1 | Autumn 1 | Autumn 1 | Autumn 1 |

## Addition

## and

## subtraction

## Addition \& subtraction: Calculations

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| - add and subtract one-digit and twodigit numbers to 20, including zero | - add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones a two-digit number and tens two two-digit numbers adding three onedigit numbers | - add and subtract numbers mentally, including: a three-digit number and ones a three-digit number and tens a three-digit number and hundreds <br> - add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction | - add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate | - add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) <br> - add and subtract numbers mentally with increasingly large numbers | - perform mental calculations, including with mixed operations and large numbers <br> - use their knowledge of the order of operations to carry out calculations involving the four operations |
| Autumn 2 Spring 2 | Autumn 2 | Autumn 2 | Autumn 2 | Autumn 2 | Autumn 2 |

## Addition \& subtraction: Problems

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| - solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7=\square-9$ | - solve problems with addition and subtraction: <br> using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods | - solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction | - solve addition and subtraction twostep problems in contexts, deciding which operations and methods to use and why | - solve addition and subtraction multistep problems in contexts, deciding which operations and methods to use and why <br> - solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign | - solve addition and subtraction multistep problems in contexts, deciding which operations and methods to use and why |
| Autumn 2 Spring 2 | Autumn 2 | Autumn 2 | Autumn 2 | Autumn 2 | Autumn 2 |

# Multiplication and division 

## Multiplication \& division: Recall/Use

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | - recall and use multiplication and division facts for the 2,5 and 10 multiplication tables, including recognising odd and even numbers <br> - show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot | - recall and use multiplication and division facts for the 3,4 and 8 multiplication tables | - recall <br> multiplication and division facts for multiplication tables up to $12 \times$ 12 <br> - use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1 ; dividing by 1; multiplying together three numbers <br> - recognise and use factor pairs and commutativity in mental calculations | - identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers <br> - know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers <br> - establish whether a number up to 100 is prime and recall prime numbers up to 19 <br> - recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed ( ${ }^{3}$ ) | - identify common factors, common multiples and prime numbers <br> - use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy |
|  | Spring 2 | Autumn 3 Spring 1 | Autumn 4 Spring 1 | Autumn 3 | Autumn 2 |

## Multiplication \& division: Calculations

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
|  | Spring 2 | $\begin{gathered} \text { Autumn } 3 \\ \text { Spring } 1 \end{gathered}$ | Spring 1 | $\begin{gathered} \text { Autumn } 3 \\ \text { Spring } 1 \end{gathered}$ | Autumn 2 |

## Multiplication \& division: Problems

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| - 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 | - solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts | - 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 objects | - solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to $m$ objects | - solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes <br> - solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates | - solve problems involving addition, subtraction, multiplication and division |
| Summer 1 | Spring 2 | Spring 1 | Spring 1 | Autumn 3 Spring 1 | Autumn 2 |

## Multiplication \& division: Combined

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | solve problems involving add subtraction, <br> multiplication and division and a these, including understanding the meaning of th equals sign <br> equals sign | use their knowledge of the order of carry out calculations involving the operations operations |
|  |  |  |  | Spring 1 | Autumn 2 |

## Fractions: Recognise and write

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| - recognise, find and name a half as one of two equal parts of an object, shape or quantity <br> - recognise, find and name a quarter as one of four equal parts of an object, shape or quantity | - recognise, find, name and write fractions $\frac{1}{3}, \frac{1}{4}, \frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity | - count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 <br> - recognise, find and write fractions of a discrete set of objects: unit fractions and nonunit fractions with small denominators <br> - recognise and use fractions as numbers: unit fractions and nonunit fractions with small denominators | - count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. | - identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths <br> - recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5}+$ $\left.\frac{4}{5}=\frac{6}{5}=1 \frac{1}{5}\right]$ |  |
| Summer 2 | Summer 1 | Spring 3 | Spring 4 Summer 1 | Autumn 4 |  |

## Fractions: Compare

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | - Recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$ | - recognise and show, using diagrams, equivalent fractions with small denominators <br> - compare and order unit fractions, and fractions with the same denominators | - recognise and show, using diagrams, families of common equivalent fractions | - compare and order fractions whose denominators are all multiples of the same number | - use common factors to simplify fractions; use common multiples to express fractions in the same denomination <br> - compare and order fractions, including fractions > 1 |
|  | Summer 1 | Spring 3 | Spring 3 | Autumn 4 | Autumn 3 |

## Fractions: Calculations

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | - write simple fractions for example, $\frac{1}{2}$ of $6=$ 3 | - add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7}+$ $\frac{1}{7}=\frac{6}{7}$ ] | - add and subtract fractions with the same denominator | - add and subtract fractions with the same denominator and denominators that are multiples of the same number <br> - multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams | - add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions <br> - multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $\left.\frac{1}{4} \times \frac{1}{2}=\frac{1}{8}\right]$ <br> - divide proper fractions by whole numbers [for example $\frac{1}{3} \div 2=\frac{1}{6}$ ] |
|  | Summer 1 | Summer 1 | Spring 3 | Autumn 4 Spring 2 | Autumn 3 Autumn 4 |

## Fractions: Solve problems

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | solve problems that involve all of the above | solve problems involving increasingly harder fractions quantities, and fractions to divide quantities, including non-unit the answer is whole number |  |  |
|  |  | Spring 3 Summer 1 | Spring 3 |  |  |


| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | - recognise and write decimal equivalents of any number of tent or hundredths <br> - recognise and write decimal equivalents to $\frac{1}{4}, \frac{1}{2}, \frac{3}{4}$ <br> round decimals with one decima place to the nearest whole number compare numbers with the same decimal places up tolaces | - read and write decimal numbers example, $0.71=$ $\left.\frac{71}{100}\right]$ <br> recognise and use relate them to tenths, <br> hundredths and decimal <br> equivalents round decimals with two decimal places to the nearest whole number and to one decimal place read, write, order and compare numbers with up places | identify the value of each digit in numbers given to three decima places |
|  |  |  | Spring 4 Summer 1 | Spring 3 Summer 3 | Spring 3 |

## Fractions, decimals and percentages

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
|  |  |  | $\begin{gathered} \text { Spring } 3 \\ \text { Spring } 4 \\ \text { Summer } 1 \end{gathered}$ | Spring 3 | ¢ Sprin 3 |

## Ratio and proportion, algebra

## Ratio and proportion

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
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| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| - solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7=\square-9$ | - recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems | - solve problems, including missing number problems |  |  | - use simple formulae <br> - generate and describe linear number sequences <br> - express missing number problems algebraically <br> - find pairs of numbers that satisfy an equation with two unknowns <br> - enumerate possibilities of combinations of two variables |
|  |  |  |  |  | Spring 2 |

Note - although formal algebraic notation is not introduced until Y6, algebraic thinking starts much earlier as exemplified by the 'missing number' objectives from $\mathrm{Y} 1 / 2 / 3$

## Measurement

## Using measures

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| - compare, describe and solve practical problems for: <br> > lengths and heights <br> > mass/weight <br> > capacity and volume <br> > time <br> - measure and begin to record the following: <br> > lengths and heights <br> > mass/weight <br> > capacity and volume <br> > time (hours, minutes, seconds) | - choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature $\left({ }^{\circ} \mathrm{C}\right)$; capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels <br> - compare and order lengths, mass, volume/capacity and record the results using >, < and = | - measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ); mass (kg/g); volume/capacity (l/ml) | - Convert between different units of measure [for example, kilometre to metre; hour to minute] <br> - estimate, compare and calculate different measures | - convert between different units of metric measure <br> - understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints <br> - use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling | - solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 d.p. where appropriate <br> - 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 3 d.p. <br> - convert between miles and kilometres |
| Spring 4 Spring 5 Summer 6 | Spring 3 Spring 4 | Spring 2 <br> Spring 4 | Spring 2 <br> Summer 3 | Spring 4 Summer 5 Summer 6 | Autumn 5 |


| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| - recognise and know the value of different denominations of coins and notes | - recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value <br> - find different combinations of coins that equal the same amounts of money <br> - solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change | - add and subtract amounts of money to give change, using both $£$ and $p$ in practical contexts | - estimate, compare and calculate different measures, including money in pounds and pence | - use all four operations to solve problems involving measure [for example, money] |  |
| Summer 5 | Spring 1 | Summer 2 | Summer 2 | Summer 3 |  |


| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| - sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening] <br> - recognise and use language relating to dates, including days of the week, weeks, months and years <br> - tell the time to the hour and half past the hour and draw the hands on a clock face to show these times | - compare and sequence intervals of time <br> - tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times <br> - know the number of minutes in an hour and the number of hours in a day | - tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12hour and 24-hour clocks <br> - estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight <br> - know the number of seconds in a minute and the number of days in each month, year and leap year <br> - compare durations of events [for example to calculate the time taken by particular events or tasks] | - read, write and convert time between analogue and digital 12and 24-hour clocks <br> - solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days | - solve problems involving converting between units of time | - use, read, write and convert between standard units, converting measurements of time from a smaller unit of measure to a larger unit, and vice versa <br> Note - In the WRM schemes, time conversions are covered in Y5; the Y6 block concentrates on metric units. |
| Summer 6 | Summer 2 | Summer 3 | Summer 3 | Summer 5 | Autumn 5 |

## Perimeter, area, volume

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | - measure the simple 2-D shapes | - measure and calculatete the perimeter of rectilinerar figure (including scuares) in centimetres and metres - find the area of rectilinear shapes by counting squares |  | recognise that same areas can have different perimeters vice versa recognise when it is possible to use and volume of shapes <br> calculate the area of parallelograms and triangles and compare volume of cubes and cuboids using standard units, including cubic centimetres ( $\mathrm{cm}^{3}$ ) ( $\mathrm{m}^{3}$ ), and extending to other units |
|  |  | Spring 2 | Autumn 3 Spring 2 | Spring 4 Summer 6 | Spring 5 |

## Geometry

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| - recognise and name common 2D shapes [for example, rectangles (including squares), circles and triangles] | - identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line <br> - identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid] <br> - compare and sort common 2-D shapes and everyday objects | - draw 2-D shapes | - compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes <br> - identify lines of symmetry in 2-D shapes presented in different orientations | - distinguish between regular and irregular polygons based on reasoning about equal sides and angles. <br> - use the properties of rectangles to deduce related facts and find missing lengths and angles | - draw 2-D shapes using given dimensions and angles <br> - compare and classify geometric shapes based on their properties and sizes <br> - illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius |
| Autumn 3 | Autumn 3 | Summer 4 | Summer 4 | Summer 1 | Summer 1 |

## 3-D shapes

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| - recognise and name common 3D shapes [for example, cuboids (including cubes), pyramids and spheres] | - recognise and name common 3D shapes [for example, cuboids (including cubes), pyramids and spheres] <br> - compare and sort common 3-D shapes and everyday objects | - make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them |  | - identify 3-D shapes, including cubes and other cuboids, from 2-D representations | - recognise, describe and build simple 3-D shapes, including making nets |
| Autumn 3 | Autumn 3 | Summer 4 |  | Summer 1 | Summer 1 |


| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | - recognise angles as a property of shape or a description of a turn <br> - identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle <br> - identify horizontal and vertical lines and pairs of perpendicular and parallel lines | - identify acute and obtuse angles and compare and order angles up to two right angles by size <br> - identify lines of symmetry in 2-D shapes presented in different orientations <br> - complete a simple symmetric figure with respect to a specific line of symmetry | - know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles <br> - draw given angles, and measure them in degrees <br> identify: <br> > angles at a point and one whole turn (total $360^{\circ}$ ) angles at a point on a straight line and $\frac{1}{2}$ a turn (total $180^{\circ}$ ) <br> other multiples of $90^{\circ}$ | - find unknown angles in any triangles, quadrilaterals, and regular polygons <br> - recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles |
|  |  | Summer 4 | Summer 4 | Summer 2 | Summer 1 |

## Position and direction

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| - describe position, direction and movement, including whole, half, quarter and three-quarter turns | - order and arrange combinations of mathematical objects in patterns and sequences <br> - use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise) |  | - describe positions on a 2-D grid as coordinates in the first quadrant <br> - describe movements between positions as translations of a given unit to the left/right and up/down <br> - plot specified points and draw sides to complete a given polygon | - 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 | - describe positions on the full coordinate grid (all four quadrants) <br> - draw and translate simple shapes on the coordinate plane, and reflect them in the axes |
| Summer 3 | Summer 4 |  | Summer 6 | Summer 2 | Summer 2 |

## Statistics

## Present and interpret data

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | - interpret and <br> construct simple <br> pictograms, tally <br> charts, block <br> diagrams and <br> simple tables | - interpret and <br> present data <br> using bar charts, <br> pictograms and <br> tables | - interpret and <br> present discrete <br> and continuous <br> data using <br> appropriate <br> graphical <br> methods, <br> including bar <br> charts and time <br> graphs | -complete, read <br> and interpret <br> information in <br> tables, including <br> timetables• interpret and <br> construct pie <br> charts and line <br> graphs and use <br> these to solve <br> problems |  |

## Solve statistical problems

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | - ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity <br> - ask and answer questions about totalling and comparing categorical data | - solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables | - solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs | - solve comparison, sum and difference problems using information presented in a line graph | - calculate and interpret the mean as an average |
|  | Summer 3 | Summer 5 | Summer 5 | Spring 5 | Spring 6 |

