## Number \& Numerical Patterns Progression Map

Talk about and explore 2D and 3D shapes using informal and mathematical language. NP
 representations of numbers to 10. (including numerals) $\mathbf{N}$

Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity. NP
Verbally count
beyond 20 ,
recogising the
Automatically recall some doubles. $\mathbf{N}$
recognising the
pattern of the
counting
Represent patterns within numbers up to 10 , including evens and odds and how quantities can be distributed equally. NP

Carefully count objects to 5. N

> To know that the last number reached when counting a small set of objects tell you how many there are in total. $\mathbf{N}$

Kibworth CE
Primary School
Let Your Light Shine

## Early Learning Goals

## Communication and Language

## Listening, Attention and Understanding

- Listen attentively and respond to what they hear with relevant questions, comments and actions when being read to and during whole class discussions and small group interactions
Make comments about what they have heard and ask questions to clarify their understanding.
Hold conversation when engaged in back-and-forth exchanges with their teacher and peers.


## Speaking

- Participate in small group, class and one-to-one discussions, offering their own ideas, using recently introduced vocabulary
Offer explanations for why things might happen, making use of recently introduced vocabulary from stories, non-fiction, rhymes and poems when appropriate.
Express their ideas and feelings about their experiences using full sentences, including use of past, present and future tenses and making use of conjunctions, including use of past, present and future tenses
with modelling and support from their teacher.


## Understanding the World

## Past and Present

- Talk about the lives of the people around them and their roles in society Know some similarities and differences between things in the past and now, drawing on their experiences and what has been read in class.
Understand the past through settings, characters and events encountered in books read in class and storytelling


## People, Culture and Communities

- Describe their immediate environment using knowledge from observation, discussion, stories, non-fiction texts and maps.
- Know some similarities and differences between different religious and cultural communities in this country, drawing on their experiences and wha has been read in class.
Explain some similarities and differences between life in this country and life in other countries, drawing on knowledge from stories, non-fiction texts and (when appropriate) maps.


## The Natural World

Explore the natural world around them, making observations and drawing pictures of animals and plants.

- Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class.
Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.


## Personal, Social and Emotional Development

Self-Regulation

- Show an understanding of their own feelings and those of others, and begin to regulate their behaviour accordingly
- Set and work towards simple goals, being able to wait for what they want and control their immediate impulses when appropriate.
- Give focused attention to what the teacher says, responding appropriately even when engaged in activity, and show an ability to follow instructions involving several ideas or actions.


## Managing Self

Be confident to try new activities and show independence, resilience and perseverance in the face of challenge.

- Explain the reasons for rules, know right from wrong and try to behave accordingly.

Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices

## Building Relationships

- Work and play cooperatively and take turns with others.
- Form positive attachments to adults and friendships with peers.
- Show sensitivity to their own and to others' needs.


## Expressive Arts and Design

Creating with Materials

- Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function
- Share their creations, explaining the process they have used.
- Make use of props and materials when role playing characters in narratives and stories.


## Being Imaginative and Expressive

- Invent, adapt and recount narratives and stories with peers and their teacher.
- Sing a range of well-known nursery rhymes and songs.
Perform songs, rhymes, poems and stories with others, and (when appropriate) try to move in time with music.


## Mathematics

## Number

- Have a deep understanding of number to 10 including the composition of each number.
- Subitise (recognise quantities without counting) up to 5 .
- Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10 , including double facts.


## Numerical Patterns

- Verbally count beyond 20 , recognising the pattern of the counting system.
- Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity
- Explore and represent patterns within numbers up to 10 , including evens and odds, double facts and how quantities can be distributed equally.


## Physical Development

## Gross Motor Skills

- Negotiate space and obstacles safely, with consideration for themselves and others.
Demonstrate strength, balance and coordination when playing.
- Move energetically, such as running, jumping, dancing, hopping, skipping and climbing.


## Fine Motor Skills

Hold a pencil effectively in preparation for fluent writing - using the tripod grip in almost all cases

- Use a range of small tools, including scissors, paintbrushes and cutlery.
Begin to show accuracy and care when drawing


## Literacy <br> Comprehension

- Demonstrate understanding of what has been read to them by retelling stories and narratives using their own words and recently introduced vocabulary.
Anticipate (where appropriate) key events in stories.
- Use and understand recently introduced vocabulary during discussions about stories, nonfiction, rhymes and poems and during role play.


## Word Reading

Say a sound for each letter in the alphabet and at least 10 digraphs.
Read words consistent with their phonic knowledge by sound-blending.
Read aloud simple sentences and books that are consistent with their phonic knowledge, including some common exception words.

## Writing

- Write recognisable letters, most of which are correctly formed.
Spell words by identifying sounds in them and representing the sounds with a letter or letters.
- Write simple phrases and sentences that can be read by others.


## Mathematics in EYFS:

## What Maths Subject Leaders Need to Know

The EYFS framework is structured very differently to the national curriculum as it is organised across seven areas of learning rather than subject areas. The aim of this document is to help subject leaders to understand how the skills taught across EYFS feed into national curriculum subjects.
This document demonstrates which statements from the 2020 Development Matters are prerequisite skills for mathematics within the national curriculum. The table below outlines the most relevant statements taken from the Early Learning Goals in the EYFS statutory framework and the Development Matters age ranges for Three and Four-Year-Olds and Reception to match the programme of study for mathematics.

The most relevant statements for mathematics are taken from the following areas of learning:

- Communication and Language
- Mathematics

| Mathematical Vocabulary |  |  |  |
| :--- | :--- | :--- | :--- |
| Three and <br> Four-Year-Olds | Communication and Language |  | • Use a wider range of vocabulary. <br> - Understand 'why' questions, like: "why do you think the <br> caterpillar is so fat?" |
| Reception | Communication and Language | • Learn new vocabulary. <br> - Use new vocabulary throughout the day. |  |
| ELG | Communication <br> and Language | Speaking | - Participate in small group, class and one-to-one discussions, <br> offering their own ideas, using recently introduced vocabulary. |

## Number and Place Value

## Counting

| Three and <br> Four-Year-Olds | Mathematics |  | - Recite numbers past 5. <br> - Say one number name for each item in order: $1,2,3,4,5$. <br> - Know that the last number reached when counting a small <br> set of objects tells you how many there are in total ('cardinal <br> principle'). |
| :--- | :--- | :--- | :--- |
| Reception | Mathematics | - Count objects, actions and sounds. <br> - Count beyond ten. |  |
| ELG | Mathematics | Numerical <br> Patterns | - Verbally count beyond 20, recognising the pattern of the <br> counting system. |

## Identifying, Representing and Estimating Numbers

| Three and <br> Four-Year-Olds | Mathematics | - Fast recognition of up to 3 objects, without having to count <br> them individually ('subitising'). <br> - Show 'finger numbers' up to 5. <br> - Link numerals and amounts: for example, showing the right <br> number of objects to match the numeral, up to 5. <br> - Experiment with their own symbols and marks as well as <br> numerals. |
| :--- | :--- | :--- |
| Reception | Mathematics | - Subitise. <br> - Link the number symbol (numeral) with its cardinal <br> number value. |


| ELG | Mathematics | Number | - Subitise (recognising quantities without counting) up to 5. |
| :---: | :---: | :---: | :---: |
| Reading and Writing Numbers |  |  |  |
| Three and Four-Year-Olds | Mathematics |  | - Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5 . <br> - Experiment with their own symbols and marks as well as numerals. |
| Reception | Mathematics |  | - Link the number symbol (numeral) with its cardinal number value. |
| Compare and Order Numbers |  |  |  |
| Three and Four-Year-Olds | Mathematics |  | - Compare quantities using language: 'more than', 'fewer than'. |
| Reception | Mathematics |  | - Compare numbers. |
| ELG | Mathematics | Numerical Patterns | - Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity. |

## Understanding Place Value

| Reception | Mathematics |  | - Understand the 'one more than/one less than' relationship <br> between consecutive numbers. <br> - Explore the composition of numbers to 10. |
| :--- | :--- | :--- | :--- |
| ELG | Mathematics | Number | - Have a deep understanding of numbers to 10, including the <br> composition of each number. |

## Solve Problems

| Three and <br> Four-Year-Olds | Mathematics | •Solve real world mathematical problems with numbers up to 5. |
| :--- | :--- | :--- |

## Addition and Subtraction

## Mental Calculations

| Reception | Mathematics |  | - Automatically recall number bonds for numbers $0-10$. |
| :--- | :--- | :--- | :--- |
| ELG | Mathematics | Number | - Automatically recall (without reference to rhymes, counting or <br> other aids) number bonds up to 5 (including subtraction facts) <br> and some number bonds to 10, including double facts. |

Solve Problems

| ELG | Mathematics | Numerical <br> Patterns | - Explore and represent patterns within numbers up to 10, <br> including evens and odds, double facts and how quantities <br> can be distributed evenly. |
| :--- | :--- | :--- | :--- |
| Reception | Mathematics | - Subitise. <br> - Link the number symbol (numeral) with its cardinal <br> number value. |  |

## Measurement

## Describe, Measure, Compare and Solve (All Strands)

| Three and <br> Four-Year-Olds | Mathematics | • Make comparisons between objects relating to size, length, <br> weight and capacity. |
| :--- | :--- | :--- |
| Reception | Mathematics | • Compare length, weight and capacity. |

## Telling the Time

| Three and <br> Four-Year-Olds | Mathematics | - Begin to describe a sequence of events, real or fictional, using <br> words, such as 'first','then...' |
| :--- | :--- | :--- |

## Properties of Shapes

## Recognise 2D and 3D Shapes and their Properties

| Three and <br> Four-Year-Olds | Mathematics | - Talk about and explore 2D and 3D shapes (for example, <br> circles, rectangles, triangles and cuboids) using informal <br> and mathematical language: 'sides', 'corners', 'straight', <br> 'flat', 'round'. <br> - Select shapes appropriately: flat surfaces for a building, a <br> triangular pattern for a roof, etc. <br> - Combine shapes to make new ones - an arch, a bigger <br> triangle, etc. |
| :--- | :--- | :--- |
| Reception | Mathematics | - Select, rotate and manipulate shapes in order to develop <br> spatial reasoning skills. |
| Compare and Classify Shapes | Mathematics | - Compose and decompose shapes so that children can <br> recognise a shape can have other shapes within it, just as <br> numbers can. |
| Reception | Mander |  |

## Position and Direction

## Position, Direction and Movement

| Three and <br> Four-Year-Olds | Mathematics | • Understand position through words alone - for example, "The <br> bag is under the table," - with no pointing. <br> - Describe a familiar route. <br> - Discuss routes and locations, using words like 'in front of' <br> and 'behind'. |
| :--- | :--- | :--- |
| Reception | Understanding the World | - Draw information from a simple map. |$|$| Patterns |
| :--- |
| Three and <br> Four-Year-Olds |
| Mathematics |
| Reception |
| Mathematics |

## Statistics

## Record, Present and Interpret Data

| Three and <br> Four-Year-Olds | Mathematics | - Experiment with their own symbols and marks, as well <br> as numerals. |
| :--- | :--- | :--- |

Maths Medium term plan

|  | Wk 1 | Wk 2 | Wk 3 | Wk 4 | Wk 5 | Wk 6 | Wk 7 | Wk 8 | Wk9 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Autumn 1 | Place value <br> Within 10 <br> Sort objects <br> Count <br> objects <br> Represent <br> objects <br> Count, read <br> and write <br> forwards <br> from any <br> number 0 to <br> 10 Count, <br> read and <br> writing <br> backwards <br> from any <br> number 0 to <br> 10 Count <br> one more <br> Count one <br> less One to <br> one <br> corresponde <br> nce to start <br> to compare <br> groups | Place value Within 10 <br> Compare groups using language such as equal, more/greater, less/fewer Introduce =,> and < symbols <br> Compare numbers Order groups of objects Order numbers Ordinal numbers (1st, 2nd, 3rd ....) The number line | Addition number bonds to 10 <br> Part whole model <br> Addition symbol Fact families - Addition facts Compare number bonds Addition: Adding together Addition: Adding more Finding a part | Addition number bonds to 10 <br> Find number bonds for numbers within 10 Systematic methods for number bonds within 10 Number bonds to 10 | Add and subtract Within 10 <br> Find number bonds for numbers within 10 Systematic methods for number bonds within 10 Number bonds to 10 | Add and subtract Within 10 <br> Subtraction: Taking away, how many left? Crossing out Subtraction: Taking away, how many left? Introducing the subtraction symbol |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Autumn 2 | $\begin{aligned} & \text { Place value } \\ & \text { to } 20 \\ & \text { Count } \\ & \text { forwards and } \\ & \text { backwards } \\ & \text { and write } \\ & \text { numbers to } \\ & 20 \text { in } \\ & \text { numerals and } \\ & \text { words } \\ & \text { Numbers } \\ & \text { from } 11 \text { to } 20 \\ & \text { Tens and } \\ & \text { ones } \end{aligned}$ | Place value to 20 Count forwards and backwards and write numbers to 20 in numerals and words Numbers from 11 to 20 Tens and ones | Place value to 20 Count one more and one less Compare groups of objects Compare numbers Order groups of objects Order numbers | Add and subtract to 10 <br> to include odd and even numbers <br> Subtraction: Finding a part, breaking apart Fact families - The 8 facts | Add and subtract to 10 <br> Subtraction: Counting back Subtraction: Finding the difference | Add and subtract to 10 <br> Comparing addition and subtraction <br> statements a + b > c <br> Comparing addition and subtraction <br> statements $\mathrm{a}+\mathrm{b}>\mathrm{c}$ $+d$ | Assessment Week | Measurement Length and height Compare lengths and heights Taller than/shorter than etc. Long/wide etc Shape and space Recognise and name 3D shapes Sort 3D shapes Recognise and name 2D shapes Sort 2D shapes Patterns with 3D and 2D shapes | Measurement <br> Length and height Non-standard units of measure <br> Standard units of measure cm how to use a ruler to measure Shape and space <br> Recognise and name 3D shapes Sort 3D shapes Recognise and name 2D shapes Sort 2D shapes Patterns with 3D and 2D shapes |

Maths Medium term plan

|  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |
| Spring 1 | Add and subtract to 20 <br> Add by counting on Find \& make number bonds Add by making 10 Number bon ds to 20 | Add and subtract to 20 <br> To include doubling <br> Add by counting on Find \& make number bonds <br> Add by making 10 <br> Number bon ds to 20 | Add and Subtraction - <br> Not crossing 10 <br> Subtraction - Crossing <br> 10 (1) <br> Subtraction - Crossing <br> 10 (2) <br> Related Facts <br> Compare Number <br> Sentences subtract to 20 | Add and subtract to 20 <br> Not crossing 10 <br> Subtraction - Crossing 10 <br> (1) <br> Subtraction - Crossing 10 <br> (2) <br> Related Facts <br> Compare Number <br> Sentences subtract to 20 | Measurement weight and volume Introduce weight and mass <br> Measure mass/clarify the meaning of the word Compare mass | Place value within 50 <br> Numbers to 50 <br> Tens and ones <br> Represent numbers <br> to 50 <br> One more one less | Place value within 50 <br> Compare objects within 50 <br> Compare numbers within 50 <br> Order numbers within 50 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Spring 2 | Place value within 50/100 (multiples of 2,5 , and 10) | Geometry position and direction Describe turns Describe Position half turn full turn Describe Position quarter turn | Measurement Weight and volume Introduce capacity Measure capacity Compare capacity | Assessment Week | Add and subtract to 20 <br> Related Facts <br> Recap number bonds to 20 <br> Compare Number Sentences subtract/addition to 20 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Summer 1 | Multiplicatio n and division <br> Count in 10s Make equal groups Add equal groups | Multiplication and division Make arrays Make doubles | Multiplication and division <br> Make equal groups grouping <br> Make equal groups sharing | Fractions Halving shapes or objects Halving a quantity |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Summer 2 | Fractions Find a quarter of a shape or object Find a quarter of a quantity | Assessment Week | Place value within 100 <br> Counting to 100 <br> Partitioning numbers <br> Comparing numbers <br> (1) <br> Comparing numbers <br> (2) <br> Ordering numbers One more, one less | Money <br> Recognising coins Recognising notes Counting in coins | Time Before and after dates Time to the hour | Time <br> Time to the half hour Writing time Comparing time |  |  |  |  |

Maths Medium term plan


Key- colour code

|  | Place value | Mass and capacity <br> (measure and <br> compare) |  |
| :--- | :--- | :--- | :--- |
|  | Add and subtract |  | Geometry - <br> Position and <br> direction |
|  | Statistics |  | Assessment Week |
|  | Shape | Fractions |  |
|  | Mult and div |  | Money |
|  | Measures- <br> Length/perimeter/area |  | Algebra |
|  | Time | Decimals and <br> percentages |  |
|  | Decimals and <br> percentages |  | Number - Ratio |

Maths Medium Term Plan Year Two


Maths Medium Term Plan Year Two

|  | check calculation $s$ and solve missing number | two-digit number and ones. |  |  |  |  | objects in each category and sorting the categories by quantity. <br> Ask and answer questions about totalling and comparing categorical data. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Big Maths |  |  |  |  |  |  |  |  |
| Spring 1 | Multiplica tion and division <br> Show that the multiplicat ion of two numbers can be done in any order (commuta tive) and division of one number by another cannot. | Multiplication and division <br> Recall and use multiplication and division facts for the 2, 5 and 10 times tables, including recognising odd and even numbers. | Multiplication and division <br> Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ( $\times$ ), division $(\div)$ and equals (=) signs. | Multiplication and division <br> Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts. | Money <br> 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. | Money <br> Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change. |  |  |
|  | Home Learning |  |  |  |  |  |  |  |
| Spring 2 | Multiplica tion and division | Multiplication and division <br> Recall and use | Multiplication and division <br> RECAP AFTER | Fractions <br> Recognise, find, name and write | Fractions Recognise, find, name and write |  |  |  |

## Maths Medium Term Plan Year Two

|  | Recall and use <br> multiplicat ion and division facts for the 2,5 and 10 times tables, including recognisin g odd and even numbers. | multiplication and division facts for the 2 , 5 and 10 times tables, including recognising odd and even numbers. | HOME LEARNING | fractions $13,14,24$ and 34 of a length, shape. | fractions of sets of objects or quantities. <br> Write simple fractions for example, 12 of $6=3$ and recognise the equivalence of 24 and 12. |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Big Maths |  |  |  |  |  |  |  |  |
| Summer 1 | Measure <br> Compare and order mass, volume/ca pacity and record the results using >, < and = <br> Choose and use appropriat e standard units to estimate and measure length/hei | Addition and Subtraction <br> Recap | Shape Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line. Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces. Identify 2-D shapes on the surface of 3-D shapes, [for | Multiplication and Division <br> Recap | Fractions <br> Recap | Assessment Week (SATs Papers) | Position and Direction <br> Order and arrange combinations of mathematical objects in patterns and sequences |  |

Maths Medium Term Plan Year Two

|  | ght in any direction (m/cm); mass (kg/g); <br> temperatu re ( ${ }^{\circ} \mathrm{C}$ ); capacity (litres/ml) to the nearest appropriat e unit, using rulers, scales, thermome ters and measuring vessels. |  | example, a circle on a cylinder and a triangle on a pyramid.] <br> Compare and sort common 2-D and $3-D$ shapes and everyday objects. |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |
| Big Maths | SATs |  |  |  |  |  |  |
| Summer 2 | 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. | Time <br> Know the number of minutes in an hour and the number of hours in a day. Compare and sequence intervals of time. | Spirited Arts Week | BIG MATHS <br> To solve problems involving addition and subtraction. | BIG MATHS <br> To solve problems involving multiplication and division. |  |  |

Maths Medium Term Plan Year Two


Key- colour code

|  | Place value |  | Mass and capacity (measure <br> and compare) |
| :--- | :--- | :--- | :--- |
|  | Add and subtract |  | Geometry - <br> Position and direction |
|  | Statistics |  | Assessment Week |
|  | Shape |  | Fractions |
|  | Mult and div |  | Money |
|  | Measures- Length/perimeter/area |  | Algebra |
|  | Time | Decimals and percentages |  |


|  | Wk 1 | Wk 2 | Wk 3 | Wk 4 | Wk 5 | Wk 6 | Wk 7 | Wk 8 | Wk 9 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Autumn 1 | Place value Consolidate twodigit place value knowledge. 1/10 more/less. | Place value Place value of 3digit numbers, order and compare. | Place value $1 / 10 / 100$ more/less. | Add and subtract Mental Re-cap mental addition and subtraction using two-digit numbers. Mental addition and subtraction using three-digit numbers. | Add and subtract written Re-cap two-digit written method for column addition. <br> Teach column addition for three-digit numbers. | Add and subtract written <br> Re-cap column subtraction for two-digit numbers. <br> Teach column subtraction for three-digit numbers. | Add and subtract Reasoning and problemsolving. Addition and subtraction inverse. |  |  |
| Autumn $2$ | Multiplication Mental methods Understanding arrays and groups for 2,5 and 10. | Multiplication <br> Mental methods for $3,4,6,8$,. | Multiplication Written method expanded column method. | Division <br> Mental methods recapping sharing and grouping. $2,5,10$ | Division <br> Mental methods - sharing and grouping for $3,4,6,8$, | Division. <br> Written methods for division grouoing on a number line. | Assessments | Consolidation Mental maths and written methods. | Consolidation <br> Mental maths and written methods. |
| Spring 1 | Money <br> Value <br> Converting between pounds and pence. | Money <br> Re-cap addition and subtraction. | Fractions <br> Fraction of a shape <br> Unit and non-unit fractions | Fractions <br> Tenths as a fraction and decimal <br> Fraction of an amount | Fractions <br> Equivalent Fractions | Fractions <br> Adding and subtracting fractions |  |  |  |
| Spring 2 | 2D Shape <br> Recap names and properties | 3D Shape <br> Recap names and properties | Consolidation | Assessments | Turns, angles and lines Clockwise/ anti-clockwise Half turn, quarter turn, three-quarter turn Left/right/forward/backward/up/down | Turns, angles and lines <br> Acute, rightangles and obtuse Parallel and perpendicular lines | Length and perimeter <br> Measuring sides accurately and mental addition. |  |  |
| Summer 1 | Measurement length and perimeter and converting. | Time <br> Recap O'clock, half past, quarter past and quarter to. | Time <br> Nearest 5mintues and minute | Time <br> Digital and analogue <br> Problem solving |  |  |  |  |  |
| Summer $2$ | Mass and Capacity Reading scales | Mass and Capacity - converting measurements | Consolidation | Assessments | Statistics <br> Tables, pictogram, bar charts, tally Answering questions and reading data | Consolidation |  |  |  |

## Year 3

Place value- 11 days 10
Add and subtract - 24 days 16
Mult and division - 33 days 24
Fractions - 21 days 20
Shape - 8 days 8
Statistics- 4 days 8
Length and perimeter -9 days 12
Time- 8 days 12
Mass and capacity- 10 days 12 days
Money - 3 days 8 days

|  | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 | Week 13 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Autumn | Place Value |  |  | Rounding |  | Addition |  | Subtraction |  | Measurement: Time |  | Multiplication |  |
| Spring | Division |  | Fractions |  |  | Decimals |  |  | Measurement: Length and Money |  |  |  |  |
| Summer | Geo Prope Sh | etry: ies of pes | Geometry: <br> Symmetry |  | Measurement: <br> Area and Perimeter |  | Geometry: Position and Direction |  | Measurement: Time |  | Measurement: Statistics |  |  |


| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 Year 6 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Week 1 Week 2 | Week 3 | Week 4 | Week 5 Week 6 | Week 7 | Week 8 Week 9 | Week 10 Week 11 | Week 12 |
| $\frac{5}{5}$ | Number: Place Value |  |  | Number: Addition and Subtraction |  | Measurement: Length and Perimeter | Number: Multiplication and Division |  |
| 嵩 | Number: Multiplication and Division |  |  | Number: Fractions |  |  | Number: Decimals | $\begin{aligned} & \text { 든 } \\ & \text { 등 } \\ & \text { 응 } \\ & 0 . \\ & 0 . \end{aligned}$ |
| $\begin{aligned} & \stackrel{\rightharpoonup}{0} \\ & \dot{E} \\ & \bar{b} \end{aligned}$ | Number: Decimals | Measurement: Money |  | Measurement: Time |  | Geometry: Propertles of Shape | Geometry: Position and Direction |  |

Maths Year 5

|  | Wk 1 | Wk 2 | Wk 3 | Wk 4 | Wk 5 | Wk 6 | Wk 7 | Wk 8 | Wk9 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Autumn 1 | Consolidate Year 4 | Number and Place value | Number and Place value | Number and Place value | Addition and subtraction | Addition and subtraction Problem solving focus |  |  |  |
|  |  | Numbers to 10,000 <br> Round to the nearest 10, 100 and1000. <br> Numbers to 100,000 <br> Compare and order numbers to 100,000 | Round numbers within 100,000 Counting in 10s, $100 \mathrm{~s}, 1000$ s and 10,000s <br> Numbers to 1 million. | Compare and order numbers to 1 million Round numbers to 1 million. <br> Negative numbers. Roman numerals to 1,000. | Add whole numbers up to and over 4 digits. <br> Subtract whole numbers up to and over 4 digits. Rounding to estimate and approximate. <br> Reference back to place value. | Multi-step problem solving. Introduce RURCC. Inverse operations. Reference back to place value. |  |  |  |
| Big Maths |  | Henry VIII and his Jewels Combinations /systematic |  | Pentominoes logical thinking | Tarsia -addition and subtraction |  |  |  |  |
| Consolidati on | Place Value | Place Value | Place Value | Place Value, Addition and Subtraction | Place Value, Addition and Subtraction | Place Value, Addition and Subtraction |  |  |  |
| Autumn 2 | Multiplicati on and division. | Multiplication and division | Multiplication and division | Multiplication and division | Multiplication and division | Angles | Angles | Assessment week | Reviewing assessment week. |
|  | Multiples and factors. Prime Numbers. Multiply by 10,100 and 1000. Divide by 10,100 and 1000. | Multiples and factors. <br> Prime <br> Numbers. <br> Multiply by <br> 10, 100 and <br> 1000. <br> Divide by 10 , <br> 100 and 1000. | Multiply 4-digits by 1-digit Multiply <br> 2-digits (area model) Multiply 2digits by 2-digits Multiply 3-digits by 2-digits Place value | Multiply 4-digits by 1-digit Multiply 2digits (area model) Multiply 2-digits by 2-digits Multiply 3digits by 2-digits Place value | Divide 4-digits by 1digit <br> Divide with remainders | Missing numbers on straight lines and around a point. | Missing angles in shapes. |  |  |
| Big Maths |  | Prime numbers investigation |  | Planning a day at the theme park calculation |  | Angles Investigation (Start the week with) |  | 12 Days of Christmas calculation+alg ebra |  |

Maths Year 5

| Consolidati on | Common denominat or fractions, Addition, subtraction, multiplicati on and division | Addition, subtraction, multiplication and division | Common denominator fractions Addition, subtraction, multiplication and division | Addition, subtraction, multiplication and division | Common denominator fractions Addition, subtraction, multiplication and division | Calcualtion, angles | Calcualtion, angles | Calcualtion, angles | Calcualtion, angles |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Spring 1 | Angles | Fractions | Fractions | Fractions | Time (Year 3 \& 4 consolidation) FDP |  |  |  |  |
|  | Using a protractor to measure and draw angles. | Equivalent fractions decimal equivalents. Mixed numbers and improper fractions. Ordering and comparing. | Addition and subtraction with fractions. | Fractions of numbers and multiplying fractions. | Can tell the time. Solve problems involving time. |  |  |  |  |
| Big Maths | Space Logic |  | Magic V addition, subtraction + parametres. |  | Constellations (angles) |  |  |  |  |
| Consolidati on | Multiplicati on and division | Place value and calculation | Place value and calculation | Place value and calculation | Fraction calculation |  |  |  |  |
| Spring 2 | FDP | FDP | FDP | 2D shape Area and Perimeter | 2D shape Area and Perimeter |  |  |  |  |
|  | Decimals as fractions Division with decimals. Problem solving with decimals | Understandin g percentages Percentages as fractions. Equivalent FDP | Problem solving | Find perimeter and area of 2D, rectilinear shapes using knowledge of rectangles. | Find perimeter and area of 2D, rectilinear shapes using knowledge of rectangles. |  |  |  |  |

Maths Year 5


Maths Year 5


Key- colour code

|  | Place value |  | Mass and capacity (measure <br> and compare) |
| :--- | :--- | :--- | :--- |
|  | Add and subtract |  | Geometry - <br> Position and direction |
|  | Statistics |  | Assessment Week |
|  | Shape |  | Fractions |
|  | Mult and div |  | Money |

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BIG MATHS IDEAS-
Autumn 1-
Autumn 2-
Spring 1-
Spring 2-
Summer 1-
Summer 2-
```

Maths Year 5

|  | Measures- Length/perimeter/area |  | Algebra |
| :--- | :--- | :--- | :--- |
|  | Time | Decimals and percentages |  |
|  | Decimals and percentages |  | Number - Ratio |

Maths Year 6

|  | Wk 1 | Wk 2 | Wk 3 | Wk 4 |  | k |  | Wk 6 | Wk 7 | Wk 8 | Wk9 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Autumn 1 | Place Value <br> Read, write, order and compare numbers up to 10000000 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 <br> Decimals <br> Identify the value of each digit in numbers given to three decimal places and multiply numbers by 10 , 100 and 1000 giving answers up to 3dp. |  | Calculation <br> Solve addition and subtraction multi step problems in contexts, deciding which operations and methods to use and why. <br> Identify common factors, common multiples and prime numbers. <br> Use their knowledge of the order of operations to carry out calculations involving the four operations. Solve problems involving addition, subtraction, multiplication and division. <br> Use estimation to check answers to calculations and determine in the context of a problem, an appropriate degree of accuracy. <br> Decimals <br> Multiply one digit numbers with up to 2dp by whole numbers. <br> Use written division methods in cases where the answer has up to two decimal places. Solve problems which require answers to be rounded to specified degrees of accuracy |  | Year 6 Castleton |  | Mult num by a using writt long Divid 4 dig who the f meth divis inter as w rema or by appro cont Divid 4 digig num form meth divis rema to co Perfo calcu inclu | Calculation iply multi-digit ber up to 4 digits 2 digit number the formal en method of multiplication. de numbers up to its by a 2 digit e number using ormal written hod of long ion, and pret remainders hole number ainders, fractions rounding as opriate for the ext. <br> de numbers up to its by a 2 digit ber using the al written od of short ion, interpreting ainders according ntext. <br> orm mental ulations, ding with mixed ations and large bers. | HALF TERM |  |  |
| Consolidat ion | Mental Addition | Mental Subtraction | Doubling | Halving | Multiplication Facts |  |  | Known facts |  |  |  |
| Investigati ve Maths |  | Murder Mystery Systematic working |  | Tarsia Multiplication Long multiplication Calculation Missing numbers Problem solving |  |  |  |  |  |  |  |
| Autumn 2 | Fractions <br> Use common factors to simplify fractions; use common multiples to express fractions in the same denomination. <br> Compare and order fractions, including fractions > 1 Generate and describe linear number sequences (with fractions) <br> Add and subtract fractions with different |  |  | FDP <br> Associate a fraction with division and calculate decimal fraction equivalents [ for example, 0.375] for a simple fraction [for example ] <br> Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. |  | Assessment week |  | Geometry- <br> Properties of Shapes <br> Draw 2D shapes using given dimensions and angles. Compare and classify geometric shapes | Geometry- Position and Direction <br> 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. |  | Geometry and Statistics Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice |

Maths Year 6

|  | denominations and mixed numbers, using the concept of equivalent fractions. Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example $x=$ ] <br> Divide proper fractions by whole numbers [for example $\div 2=1$ <br> Number: Percentages <br> Solve problems involving the calculation of percentages [for example, of measures and such as $15 \%$ of 360 ] and the use of percentages for comparison. <br> Recall and use equivalences between simple FDP including in different contexts. |  |  | Number: Percentages <br> 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 FDP including in different contexts. |  |  | based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons. |  |  | the radius. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Consolidat ion |  |  |  |  |  |  |  |  |  |  |
| Investigati ve Maths |  |  |  | WW2 Code breaking Reasoning |  |  | Battle of Britain Fractions of amounts Reasoning | Xmas cards: working systematically | Dunkerque Evacuation Logic and Reasoning |  |
| Spring 1 | Geometry and <br> Measures - <br> Angles <br> Recognise <br> angles where <br> they meet at <br> a point, are <br> on a straight <br> line, or are <br> vertically <br> opposite, and <br> find missing <br> angles. | Geometry and Measures - <br> Angles <br> Interpret and construct pie charts and line graphs and use these to solve problems. Calculate the mean as an average. | Assessment Week | Measurement Volume Recognise that shapes wit different perimeters and Recognise when it is poss and volume of shapes. Calculate the area of para Calculate, estimate and con cuboids using standard u extending to other units | same area versa. <br> use formu <br> rams and t re volume including cm , km3) | can have <br> e for area <br> ngles. <br> cubes and m3 and | Measurement 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 kilometres. Time |  |  |  |
| Consolidat ion | Arithmetic Practice | Arithmetic Practice | Arithmetic Practice | Arithmetic Practice |  | metic | Arithmetic Practice |  |  |  |
| Investigati |  |  | Drawing and Measuring Pie Charts |  | Drawing p | fect shapes |  | Maths/Art |  |  |

Maths Year 6


Key- colour code

|  | Place value |  | Mass and capacity (measure <br> and compare) |
| :--- | :--- | :--- | :--- |
|  | Add and subtract |  | Geometry - <br> Position and direction |
|  | Statistics |  | Assessment Week |
|  | Shape |  | Fractions |
|  | Mult and div |  | Money |

## Investigative MATHS IDEAS-

Autumn 1-
Autumn 2-
Spring 1-
Spring 2-
Summer 1-
Summer 2-

Maths Year 6

|  | Measures- Length/perimeter/area | Algebra |
| :--- | :--- | :--- |
|  | Time | Decimals and percentages |
|  | Decimals and percentages | Number - Ratio |

