St William of Perth-

Maths Curriculum Map

NUMBER

| Early Years Foundation Stage | | | | | | |
|------------------------------|---|-----------------------------------|-------------------------------------|---------------------------------|--|--|
| Number | Number Patterns: | | | | | |
| -Count n | umbers in order. | | | | | |
| -Count o | bjects, matching one numb | er name to each object. | | | | |
| -Articula | te how many objects are in | a group. | | | | |
| -Estimate | e how many object may be | in a group before counting to d | evelop their understanding of t | he cardinal counting principle. | | |
| -Give a p | ourpose to counting. | | | | | |
| -Count a | smaller amount from a large | ger group of objects. | | | | |
| -Linking | numerals with its cardinal v | value. | | | | |
| -To verba | ally count to 20. | | | | | |
| -To com | pare numbers, using the vo | cabulary 'more than', 'less than' | ', 'fewer', 'the same as', 'equal t | to'. | | |
| -To unde | erstand the relationship bet | ween two consecutive numbers | | | | |
| -Childrer | n will identify odd and even | numbers to 10. | | | | |
| | | | | | | |
| Number | : | | | | | |
| -To explo | ore the composition of num | ibers to 10 | | | | |
| -Subitisir | ng - to recognise amounts f | rom familiar and unfamiliar arra | ngements. | | | |
| -Recall n | umber bonds for numbers | 0-5 and some to 10. | | | | |
| -Childrer | n will double numbers to 5 | and some to 10. | | | | |
| | | | | | | |
| | | | Ке | y Stage 1 | | |
| | Place Value | Addition & Subtraction | Multiplication & Division | Fractions | | |
| 1 | Count to and across | -Read, write and interpret | - Use concrete, pictorial and | -Recognise, find and name a | | |
| | 100 | mathematical statements | abstract representations | half as two equal parts of a | | |
| | - Count in multiples of | using + , - and = . | and arrays to solve one step | whole amount (shape or | | |
| | 2, 5 and 10 | -Represent and use number | problems involving | quantity) | | |
| | - Identify one more and | bonds and related facts | multiplication and division | -Recognise, find and name a | | |

| 2, 5 anu 10 | -Represent and use number | problems involving | quantity) | |
|-------------------------|-------------------------------|-----------------------------|---------------------------------|--|
| - Identify one more and | bonds and related facts | multiplication and division | -Recognise, find and name a | |
| less. | within and to 20 | | quarter as 4 equal parts of a | |
| - Read and write | -Add and subtract one digit | <u>Non Statutory</u> | whole amount (shape or | |
| numbers to 20 in | and two-digit numbers to 20 | Use grouping, sharing to | quantity) | |
| numerals and words | including 0 | understanding | | |
| Identify and represent | -Solve one step problems | multiplication and division | <u>Non Statutory</u> | |
| numbers using: number | using addition and | | -Connect halves and quarters to | |
| lines | subtraction, using concrete | | the equal sharing and grouping | |
| | pictorial representations and | | of sets of objects and to | |
| | missing number problems | | measures. | |

| | Compare numbers using | | | -Recognising and combining | |
|---|---------------------------|---------------------------------|-----------------------------|---|--|
| | language of more, less | <u>Non Statutory</u> | | halves and quarters as parts of | |
| | and equal to | -Memorise and reason with | | a whole. | |
| | | number bonds to 10 and 20 | | | |
| | Non Statutory | in several forms (for | | | |
| | -Practise counting (1, 2, | example, 9 + 7 = 16; 16 – 7 = | | | |
| | 3), ordering to | 9; 7 = 16 – 9)Understand | | | |
| | indicate a quantity, | the effect of adding or | | | |
| | including solving simple | subtracting zero. | | | |
| | concrete problems. | -Understand addition and | | | |
| | -Recoanise place value | subtraction as related | | | |
| | in numbers by readina. | operations. | | | |
| | writina. countina and | -Combine and increase | | | |
| | comparina numbers up | numbers, counting forwards | | | |
| | to 100 | and backwards. | | | |
| | | -Discuss and solve problems | | | |
| | Practise counting as | in familiar practical contexts. | | | |
| | reciting numbers and | includina usina auantities. | | | |
| | counting as | | | | |
| | enumerating objects | -Understand the terms: 'nut | | | |
| | counting in twos fives | together' 'add' 'altogether' | | | |
| | and tens from different | 'total' 'take aaway' | | | |
| | multiples to develop | 'difference between' 'more | | | |
| | recognition of patterns | than' and less than' to | | | |
| | in the number system i.e. | davalon the concent of | | | |
| | add and over | addition and subtraction and | | | |
| | baa ana even | | | | |
| | | ability to use these | | | |
| | | operations flexibly. | | | |
| - | | T 1 11 31 | | | |
| 2 | -Count in steps of 2, 3, | - To solve problems with | -Recall and use | - To recognise, find, name and | |
| | and 5 from 0, and in | addition and subtraction: | multiplication and division | write fractions γ_3 , γ_4 , 2/4 and | |
| | tens from any number, | using concrete objects and | facts for the 2, 5 and 10 | 3/4 of a length, shape, set of | |
| | forward and backward | pictorial representations, | multiplication tables, | objects or quantity | |
| | -Recognise the place | including those involving | including recognising odd | - Write simple fractions, for | |
| | value of each digit in a | numbers, quantities and | and even numbers | example $\frac{1}{2}$ of 6 = 3 and | |
| | two-digit number (tens, | measures by applying their | - Calculate mathematical | recognise the equivalence of | |
| | ones) | increasing knowledge of | statements for | 2/4 and ½. | |
| | -Identify, represent and | mental and written methods | multiplication and division | | |
| | estimate numbers using | -Recall and use addition and | within the multiplication | <u>Non Statutory</u> | |
| | different | subtraction facts to 20 | tables and write them using | -Half and quarter as 'fractions | |
| | representations, | fluently, and derive and use | the multiplication (×), | of' discrete and continuous | |
| | | related facts up to 100 | | quantities by solving problems | |

| including the number | -Add and subtract numbers | division (+) and equals (=) | using shapes, objects and | |
|---------------------------|--------------------------------|------------------------------|---------------------------------|--|
| line | using concrete objects, | signs | quantities. | |
| -Compare and order | pictorial representations, | - Show that multiplication | - Connect halves and quarters | |
| numbers from 0 up to | and mentally, including: a | of 2 numbers can be done | to the equal sharing and | |
| 100; use <, > and = signs | two-digit number and ones, | in any order (commutative) | grouping of sets of objects and | |
| -Read and write | a two-digit number and tens, | and division of 1 number by | to measures, - Recognising and | |
| numbers to at least 100 | two two-digit numbers, | another cannot. | combining halves and quarters | |
| in numerals and in | adding three one-digit | -Solve problems involving | as parts of a whole. | |
| words use place value | numbers | multiplication and division, | | |
| and number facts to | -Show that addition of two | using materials, arrays, | | |
| solve problems. | numbers can be done in any | repeated addition, mental | | |
| | order (commutative) and | methods, and | | |
| <u>Non Statutory</u> | subtraction of one number | multiplication and division | | |
| -Practise counting, | from another cannot - | facts, including problems in | | |
| reading, writing and | Recognise and use the | contexts. | | |
| comparing numbers to | inverse relationship | | | |
| at least 100 and solving | between addition and | Non Statutory | | |
| a variety of related | subtraction and use this to | -Grouping and sharing | | |
| problems to develop | check calculations and solve | small quantities. | | |
| fluency. | missing number problems. | -Doubling and halving | | |
| -Count in multiples of | | numbers and quantities. | | |
| three to support later | <u>Non Statutory</u> | and finding simple fractions | | |
| understanding of a | -Extend understanding of the | of objects, numbers and | | |
| third. | language of addition and | quantities. | | |
| -Partition numbers in | subtraction to include sum | -Arrays, number patterns, | | |
| different ways to | and difference. | and counting in 2s, 5s and | | |
| support subtraction. | -Practise addition and | 10s. | | |
| -Apply knowledge of | subtraction to 20 to become | | | |
| numbers to reason with. | increasingly fluent in | | | |
| discuss and solve | deriving facts such as using 3 | | | |
| problems that | + 7 = 10; 10 - 7 = 3 to | | | |
| emphasise the value of | calculate | | | |
| each digit in two-digit | 30 + 70 = 100; 100 - 70 = 30 | | | |
| numbersBeain to | -Check their calculations, | | | |
| understand zero as a | including by adding to check | | | |
| place holder. | subtraction and adding | | | |
| | numbers in a different order | | | |
| | to check addition (for | | | |
| | example, 5 + 2 + 1 = 1 + 5 + 2 | | | |
| | = 1 + 2 + 5). | | | |
| | -Recording addition and | | | |
| | subtraction in columns to | | | |

| | | support place value and | | | | |
|---|----------------------------|-----------------------------------|--------------------------------------|----------------------------------|------------------------|---|
| | | prepares for formal written | | | | |
| | | methods with larger | | | | |
| | | numbers. | | | | |
| | | | Lower Key | Stage 2 | | |
| | Place Value | Addition & Subtraction | Multiplication & Division | Fractions | Decimals & Percentages | |
| 3 | -Count from 0 in | -Add and subtract numbers | -Recall and use | -Count up and down in tenths - | | |
| | multiples of 4, 8, 50 and | mentally, including: | multiplication and division | Recognise that tenths arise | | |
| | 100. | a three-digit | facts for the 3, 4 and 8 | from dividing an object into 10 | | |
| | -Compare and order | number and 1s | multiplication tables. | equal parts and in dividing one- | | |
| | numbers up to 1000. | a three-digit | -Write and calculate | digit numbers or quantities by | | |
| | -Read and write | number and 10s | mathematical statements | 10. | | |
| | numbers up to 1000 in | a three-digit | for multiplication and | Recognise, find and write | | |
| | numerals and in words. | number and 100s. | division using the | fractions of a discrete set of | | |
| | -Find 10 or 100 more or | -Add and subtract numbers | multiplication tables that | objects: unit fractions and non- | | |
| | less than a given | with up to 3 digits, using | are known, including for: | unit fractions with small | | |
| | number. | formal written methods of | two-digit numbers times | denominators. | | |
| | -Recognise the place | columnar addition and | one-digit numbers, using | -Recognise and use fractions as | | |
| | value of each digit in a | subtraction. | mental and progressing to | numbers: unit fractions and | | |
| | three-digit number | -Estimate the answer to a | formal written methods. | non-unit fractions with small | | |
| | (hundreds, tens, ones). | calculation and use inverse | -Solve problems, including | denominators. | | |
| | -Identify, represent and | operations to check | missing number problems, | -Recognise and show, using | | |
| | estimate numbers using | answers. | involving multiplication and | diagrams, equivalent fractions | | |
| | different | -Solve problems, including | division, including positive | with small denominators. | | |
| | representations. | missing number problems, | integer scaling problems | -Add and subtract fractions | | |
| | -Solve number | using number facts, place | and correspondence | with the same denominator | | |
| | problems and practical | value, and more complex | problems in which n objects | within one whole [for example, | | |
| | problems involving. | addition and subtraction. | are connected to m objects. | 5 1 6 | | |
| | | | | 7 + 7 = 7]. | | |
| | <u>Non Statutory</u> | | <u>Non Statutory</u> | | | |
| | -Use multiples of 2, 3, 4, | <u>Non Statutory</u> | -Continue to practise | -Compare and order unit | | |
| | 5, 8, 10, 50 and 100. | Practise solving varied | mental recall of | fractions and fractions with the | | |
| | -Use larger numbers to | addition and subtraction | multiplication tables when | same denominators. | | |
| | at least 1000, applying | questions. For mental | calculating mathematical | -Solve problems that involve all | | |
| | partitioning related to | calculations with two-digit | statements, in order to | of the above. | | |
| | place value using varied | numbers, the answers could | improve fluencyThrough | | | |
| | and increasingly | exceed 100. | doubling, children connect | Non Statutory | | |
| | complex problems, | Apply understanding of place | the 2, 4 and 8 multiplication | Connect tenths to place value. | | |
| | building on work in year | value and partitioning, and | tables | decimal measures and to | | |
| | 2 (for example, 146 = | practise using columnar | -Develop efficient mental | division by 10. | | |
| | 100 + 40 and 6, 146 = | addition and subtraction | methods, for example, | Begin to understand unit and | | |
| | 130 + 16). | with increasingly large | using commutativity and | non-unit fractions as numbers | | |
| | | | | , | | 1 |

| | -Use a variety of | numbers up to three digits to | associativity (for example, 4 | on the number line, and deduce | | |
|---|--------------------------|--|-------------------------------|---|------------------------------|--|
| | representations, | become fluent | × 12 × 5 = 4 × 5 × 12 = 20 × | relations between them, such as | | |
| | including those related | | 12 = 240) and multiplication | size and equivalence. They | | |
| | to measure to continue | | and division facts (for | should go beyond the [0, 1] | | |
| | to count in ones, tens | | example, using 3 × 2 = 6, 6 ÷ | interval, including relating this | | |
| | and hundreds, to | | 3 = 2 and 2 = 6 ÷ 3) to | to measure. | | |
| | support fluency in the | | derive related facts (for | -Pupils understand the relation | | |
| | order and place value of | | example, 30 × 2 = 60, 60 ÷ 3 | between unit fractions as | | |
| | numbers to 1000. | | = 20 and 20 = 60 ÷ 3). | operators (fractions of), and | | |
| | | | -Develop reliable written | division by integers. | | |
| | | | methods for multiplication | -Continue to recognise fractions | | |
| | | | and division, starting with | in the context of parts of a | | |
| | | | calculations of two-digit | whole, numbers, | | |
| | | | numbers by one-digit | measurements, a shape, and | | |
| | | | numbers and progressing to | unit fractions as a division of a | | |
| | | | the formal written methods | quantity. | | |
| | | | of short multiplication and | -Practise adding and | | |
| | | | division. | subtracting fractions with the | | |
| | | | -Solve simple problems in | same denominator through a | | |
| | | | contexts, deciding which of | variety of increasingly complex | | |
| | | | the four operations to use | problems to improve fluency. | | |
| | | | and why. | | | |
| | | | | | | |
| 4 | -Represent and | -Add and subtract 1s, 10s, | -Multiply and divide by 3, 6, | Recognise and show, using | -Tenths and hundredths as | |
| | partition numbers to | 100s, 1000s | 9, 7, 11 and 12 | diagrams, families of common | decimals and fractions | |
| | 10,000 | Add and subtract numbers | -Count in multiples of 25 | equivalent fractions | -Find the effect of dividing | |
| | -Number lines to 10,000 | with up to 4 digits using the | and 1,000 | -Compare and order mixed | a one- or two-digit number | |
| | -Find 1000 more or less | formal written methods of | -Recall multiplication and | numbers | by 10 and 100, identifying | |
| | than a given number | columnar addition and | division facts for | -Convert between mixed | the value of the digits in | |
| | -Identify, represent and | subtraction where | multiplication tables up to | numbers and improper | the answer as ones, tenths | |
| | estimate numbers using | appropriate | 12 × 12 | fractions | and hundredths | |
| | different | -Estimate and use inverse | -Use place value, known | solve problems involving | -Count up and down in | |
| | representations | operations to check answers | and derived facts to | increasingly harder fractions to | hundredths; recognise that | |
| | -Round any number to | to a calculation | multiply and divide | calculate quantities, and | hundredths arise when | |
| | the nearest 10, 100 or | -Solve addition and | mentally, including: | fractions to divide quantities, | dividing an object by 100 | |
| | 1,000 | subtraction two-step | multiplying by 0 and 1; | including non-unit fractions | and dividing tenths by 10 | |
| | -Read Roman numerals | problems in contexts, | dividing by 1; multiplying | where the answer is a whole | recognise and write | |
| | to 100 (I to C) and know | deciding which operations | together 3 numbers | number | decimal equivalents of any | |
| | that over time, the | and methods to use and why | dividing a number by itself | -Add and subtract fractions | number of tenths or | |
| | numeral system | -Estimating addition and | recognise and use factor | with the same denominator | hundreds | |
| | changed to include the | subtraction answers | pairs and commutativity in | (including mixed numbers and | | |
| | | | mental calculations | whole numbers) | | |

| | concept of 0 and place | -Checking strategies for | -Multiply by 10 and 100 | -Solve simple measure and | recognise and write | |
|---|--|---|--|--|---|-----------------|
| | value | addition and subtraction | multiply two-digit and | money problems involving | decimal equivalents to 1/4, | |
| | -Count backwards | | three-digit numbers by a | fractions | 1/2 , ¾ | |
| | through 0 to include | | one-digit number using | | round decimals with 1 | |
| | negative number | | formal written layout | | decimal place to the | |
| | -Order and compare | | divide two-digit and three- | | nearest whole number | |
| | numbers beyond 1,000 | | digit numbers by a one-digit | | compare numbers with the | |
| | solve number and | | number using formal | | same number of decimal | |
| | practical problems that | | written layout | | places up to 2 decimal | |
| | involve all of the above | | solve problems involving | | places | |
| | and with increasingly | | multiplying and adding, | | solve simple measure and | |
| | large positive numbers | | including using the | | money problems involving | |
| | | | distributive law to multiply | | decimals to 2 decimal | |
| | | | two-digit numbers by 1 | | places | |
| | | | digit, integer scaling | | | |
| | | | problems and harder | | | |
| | | | correspondence problems | | | |
| | | | such as n objects are | | | |
| | | | connected to m objects | | | |
| | | | | | | |
| | | | Upper Key | Stage 2 | | |
| | | | | | | |
| | Place Value | Addition & Subtraction | Multiplication & Division | Fractio | ns | Algebra & Ratio |
| | Place Value | Addition & Subtraction | Multiplication & Division | Fractio Decimals & Pe | ns rcentages | Algebra & Ratio |
| 5 | Place Value -Read, write, order and | Addition & Subtraction | Multiplication & Division -Identify multiples and | Fraction Decimals & Pe -Compare and order fractions who | ns prcentages ose denominators are all | Algebra & Ratio |
| 5 | Place Value -Read, write, order and compare numbers to at | Addition & Subtraction -Add and subtract whole numbers with more than 4 | Multiplication & Division -Identify multiples and factors, including finding all | Fraction Decimals & Per -Compare and order fractions whe multiples of the same number | ns rcentages ose denominators are all | Algebra & Ratio |
| 5 | Place Value -Read, write, order and compare numbers to at least 1,000,000 and | Addition & Subtraction -Add and subtract whole numbers with more than 4 digits, including using formal | -Identify multiples and factors, including finding all factor pairs of a number, | Fraction Decimals & Period -Compare and order fractions who multiples of the same number -Identify, name and write equival | ns rcentages ose denominators are all ent fractions of a given | Algebra & Ratio |
| 5 | Place Value -Read, write, order and compare numbers to at least 1,000,000 and determine the value of | Addition & Subtraction -Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar | -Identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 | Fraction Decimals & Period -Compare and order fractions who multiples of the same number -Identify, name and write equival fraction, represented visually, inc | ons orcentages ose denominators are all ent fractions of a given luding tenths and | Algebra & Ratio |
| 5 | Place Value -Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit | Addition & Subtraction -Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) | -Identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers | Fraction Decimals & Period -Compare and order fractions who multiples of the same number -Identify, name and write equival fraction, represented visually, included hundredths | ons prcentages ose denominators are all ent fractions of a given luding tenths and | Algebra & Ratio |
| 5 | Place Value -Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit -Count forwards or | Addition & Subtraction -Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) -Add and subtract numbers | -Identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers -Know and use the | Fraction Decimals & Per -Compare and order fractions who multiples of the same number -Identify, name and write equival fraction, represented visually, inco hundredths | ons ercentages ose denominators are all ent fractions of a given luding tenths and | Algebra & Ratio |
| 5 | Place Value -Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit -Count forwards or backwards in steps of | Addition & Subtraction -Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) -Add and subtract numbers mentally with increasingly | Multiplication & Division -Identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers -Know and use the vocabulary of prime | Fraction Decimals & Period -Compare and order fractions who multiples of the same number -Identify, name and write equival fraction, represented visually, inc hundredths -Recognise mixed numbers and in | ons creentages ose denominators are all ent fractions of a given luding tenths and pproper fractions and | Algebra & Ratio |
| 5 | Place Value -Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit -Count forwards or backwards in steps of powers of 10 for any | Addition & Subtraction -Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) -Add and subtract numbers mentally with increasingly large numbers | Multiplication & Division -Identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers -Know and use the vocabulary of prime numbers, prime factors and | Fraction Decimals & Period -Compare and order fractions who multiples of the same number -Identify, name and write equivale fraction, represented visually, incl hundredths -Recognise mixed numbers and in convert from one form to the oth | ons prcentages pose denominators are all ent fractions of a given luding tenths and proper fractions and er and write mathematical | Algebra & Ratio |
| 5 | Place Value -Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit -Count forwards or backwards in steps of powers of 10 for any given number up to | Addition & Subtraction -Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) -Add and subtract numbers mentally with increasingly large numbers -Use rounding to check | Multiplication & Division -Identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers -Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) | Fraction Decimals & Period -Compare and order fractions who multiples of the same number -Identify, name and write equivale fraction, represented visually, incl hundredths -Recognise mixed numbers and in convert from one form to the oth | ons prcentages pose denominators are all ent fractions of a given luding tenths and hproper fractions and er and write mathematical <u>2</u> <u>4</u> <u>6</u> | Algebra & Ratio |
| 5 | Place Value -Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit -Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000 | Addition & Subtraction -Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) -Add and subtract numbers mentally with increasingly large numbers -Use rounding to check answers to calculations and | Multiplication & Division -Identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers -Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers | Fraction Decimals & Period -Compare and order fractions who multiples of the same number -Identify, name and write equivale fraction, represented visually, incl hundredths -Recognise mixed numbers and in convert from one form to the oth statements > 1 as a mixed number | proper fractions and er and write mathematical r [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1$ | Algebra & Ratio |
| 5 | Place Value -Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit -Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000 -Interpret negative | Addition & Subtraction -Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) -Add and subtract numbers mentally with increasingly large numbers -Use rounding to check answers to calculations and determine, in the context of | Multiplication & Division -Identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers -Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers -Establish whether a | Fraction Decimals & Period -Compare and order fractions who multiples of the same number -Identify, name and write equivale fraction, represented visually, inc hundredths -Recognise mixed numbers and in convert from one form to the oth statements > 1 as a mixed number $\frac{1}{2}$ | procentages ose denominators are all ent fractions of a given luding tenths and hproper fractions and er and write mathematical r [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1$ | Algebra & Ratio |
| 5 | Place Value -Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit -Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000 -Interpret negative numbers in context, | Addition & Subtraction -Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) -Add and subtract numbers mentally with increasingly large numbers -Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy | Multiplication & Division -Identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers -Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers -Establish whether a number up to 100 is prime | Fraction Decimals & Period -Compare and order fractions who multiples of the same number -Identify, name and write equivale fraction, represented visually, incl hundredths -Recognise mixed numbers and in convert from one form to the oth statements > 1 as a mixed number 1 5] | procentages procentages pose denominators are all ent fractions of a given luding tenths and hproper fractions and er and write mathematical r [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1$ | Algebra & Ratio |
| 5 | Place Value -Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit -Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000 -Interpret negative numbers in context, count forwards and | Addition & Subtraction -Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) -Add and subtract numbers mentally with increasingly large numbers -Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy -Solve addition and | Multiplication & Division -Identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers -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 | Fraction Decimals & Period -Compare and order fractions who multiples of the same number -Identify, name and write equivale fraction, represented visually, incl hundredths -Recognise mixed numbers and in convert from one form to the oth statements > 1 as a mixed number $\frac{1}{5}$ | precentages pose denominators are all ent fractions of a given luding tenths and hproper fractions and er and write mathematical $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1$ | Algebra & Ratio |
| 5 | Place Value -Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit -Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000 -Interpret negative numbers in context, count forwards and backwards with positive | Addition & Subtraction -Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) -Add and subtract numbers mentally with increasingly large numbers -Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy -Solve addition and subtraction multi-step | Multiplication & Division -Identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers -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 | Fraction Decimals & Period -Compare and order fractions who multiples of the same number -Identify, name and write equivale fraction, represented visually, incl hundredths -Recognise mixed numbers and in convert from one form to the oth statements > 1 as a mixed number 1 5] -Add and subtract fractions with t | he same denominator, and | Algebra & Ratio |
| 5 | Place Value -Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit -Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000 -Interpret negative numbers in context, count forwards and backwards with positive and negative whole | Addition & Subtraction -Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) -Add and subtract numbers mentally with increasingly large numbers -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, | Multiplication & Division -Identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers -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 -Multiply numbers up to 4 | Fraction Decimals & Period -Compare and order fractions who multiples of the same number -Identify, name and write equivale fraction, represented visually, incl hundredths -Recognise mixed numbers and in convert from one form to the oth statements > 1 as a mixed number $\frac{1}{5}$] -Add and subtract fractions with the denominators that are multiples of | he same denominator, and of the same number | Algebra & Ratio |
| 5 | Place Value -Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit -Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000 -Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including | Addition & Subtraction -Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) -Add and subtract numbers mentally with increasingly large numbers -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 | Multiplication & Division -Identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers -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 -Multiply numbers up to 4 | Fraction Decimals & Period -Compare and order fractions who multiples of the same number -Identify, name and write equivale fraction, represented visually, incl hundredths -Recognise mixed numbers and in convert from one form to the oth statements > 1 as a mixed number $\frac{1}{5}$] -Add and subtract fractions with th denominators that are multiples of | he same denominator, and of the same number | Algebra & Ratio |
| 5 | Place Value -Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit -Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000 -Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0 | Addition & Subtraction -Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) -Add and subtract numbers mentally with increasingly large numbers -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 | Multiplication & Division -Identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers -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 -Multiply numbers up to 4 digits by a one- or two-digit number using a formal | Fraction Decimals & Period -Compare and order fractions who multiples of the same number -Identify, name and write equivale fraction, represented visually, incl hundredths -Recognise mixed numbers and in convert from one form to the oth statements > 1 as a mixed number $\frac{1}{5}$] -Add and subtract fractions with th denominators that are multiples of | he same denominator, and of the same number | Algebra & Ratio |
| 5 | Place Value -Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit -Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000 -Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0 -Round any number up | Addition & Subtraction -Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) -Add and subtract numbers mentally with increasingly large numbers -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 | Multiplication & Division -Identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers -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 -Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including | Fraction Decimals & Period -Compare and order fractions when multiples of the same number -Identify, name and write equivale fraction, represented visually, include hundredths -Recognise mixed numbers and in convert from one form to the other statements > 1 as a mixed number 1 5] -Add and subtract fractions with to denominators that are multiples of -Multiply proper fractions and mixed numbers and mixed -Multiply proper fractions | the same denominator, and of the same number system of the same system of the same system of the same system of the same system of the system | Algebra & Ratio |

| | nearest 10, 100, 1,000, 10,000 and 100,000 -Solve number problems and practical problems that involve all of the above -Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals | | long multiplication for two- digit numbers -Multiply and divide numbers mentally, drawing upon known facts -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 -Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000 -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 -Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign -Solve problems involving multiplication and division, including understanding the meaning of the equals sign -Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates | -Read and write decimal numbers as fractions [for example, $\frac{71}{0.71 = 100}$] -Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents -Round decimals with 2 decimal places to the nearest whole number and to 1 decimal place -Read, write, order and compare numbers with up to 3 decimal places -Solve problems involving number up to 3 decimal places -Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per 100', and write percentages as a fraction with denominator 100, and as a decimal fraction -Solve problems which require knowing percentage and $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25 | |
|---|---|-------------------------|---|---|---|
| 6 | - Read, write, order | - perform mental | involving simple rates - multiply multi-digit | - Use common factors to simplify fractions; use common | - Solve problems |
| | and compare numbers to | calculations, including | numbers up to 4 digits by a two-digit whole | multiples to express fractions in the same denomination Compare and order fractions, including fractions > 1 | involving the relative sizes of two quantities |

| | | | I |
|--|---|--|---|
| | context of a problem, an appropriate degree of accuracy Pupils practise addition, subtraction, multiplication and division for larger numbers, using the formal written methods of columnar addition and subtraction, short and long multiplication, and short and long division undertake mental calculations with increasingly large numbers and more complex calculations continue to use all the multiplication tables to calculate mathematical statements in order to maintain their fluency Pupils round answers to a specified degree of accuracy, for example, to the nearest 10, 20, 50 etc., but not to a specified number of significant figures. Pupils explore the order of operations using brackets; for example, 2 + 1 x 3 = 5 and (2 + 1) x 3 = 9. Common factors can be related to finding equivalent fractions. | Explore and make conjectures about converting a simple fraction to a decimal fraction (for example, 3 ÷ 8 = 0.375). For simple fractions with recurring decimal equivalents, pupils learn about rounding the decimal to three decimal places, or other appropriate approximations depending on the context. Pupils multiply and divide numbers with up to two decimal places by one-digit and two-digit whole numbers. Pupils multiply decimals by whole numbers, starting with the simplest cases, such as 0.4 × 2 = 0.8, and in practical contexts, such as measures and money are introduced to the division of decimal numbers by one-digit whole number, initially, in practical contexts involving measures and money. They recognise division calculations as the inverse of multiplication also develop their skills of rounding and estimating as a means of predicting and checking the order of magnitude of their answers to a specified degree of accuracy and checking the reasonableness of their answers | 'for every egg you need three spoonfuls of flour', ' 5 3 of the class are boys'. These problems are the foundation for later formal approaches to ratio and proportion. 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 variables. should be introduced to the use of symbols and letters to represent variables and unknowns in mathematical situations that they already understand, such as: missing numbers, lengths, coordinates and angles formulae in mathematics and science equivalent expressions (for example, a + b = b + a) generalisations of number patterns number puzzles (for example, what two |
| | | | numbers can add up to) |

SWOP - Maths Curriculum Map

GEOMETRY

| | Early Years Foundation Stage Provision areas provide children with opportunities to discuss and explore shape | | | | |
|---|--|--|--|--|--|
| | Kev | Stage 1 | | | |
| | Shape/Geometry | Position and Direction | | | |
| 1 | -Recognise, identify and name common 2D shapes | -Describe position and direction and movement including whole, three quarter, half and one | | | |
| | -Recognise, identify and name common 3D shapes | quarter turns. | | | |
| | Non Chatachama | -Use language of: left, right, above, below, in between, forwards and backwards | | | |
| | Non Statutory Recognise and create reporting patterns with objects and with shapes | | | | |
| 2 | -Recognise and name common 2-D and 3-D shapes, including: | -Order and arrange combinations of mathematical objects in patterns and sequences | | | |
| - | 2-D shapes [for example, rectangles (including squares), circles and triangles] | order and arrange combinations of mathematical objects in patterns and sequences | | | |
| | • 3-D shapes [for example, cuboids (including cubes), pyramids and spheres] | -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 anti-clockwise). | | | |
| _ | Key: | Stage 2 | | | |
| 3 | Draw 2-D snapes and make 3-D snapes using modelling materials; recognise 3-D snapes in | | | | |
| | different orientations and describe them. | Identify right angles, recognise that 2 right angles make a half-turn, 3 make three-quarters of | | | |
| | Recognise angles as a property of shape or a description of a turn. | a turn and 4 a complete turn; identify whether angles are greater than or less than a right | | | |
| | Identify horizontal and vertical lines and pairs of perpendicular and parallel lines. | angle. | | | |
| | | | | | |
| | | | | | |
| 4 | -Compare and classify geometric shapes, including quadrilaterals and triangles, based on | describe positions on a 2-D grid as coordinates in the first quadrant | | | |
| | their properties and sizes | - describe movements between positions as translations of a given unit to the | | | |
| | -Identify acute and obtuse angles and compare and order angles up to 2 right angles by size | left/right and up/down | | | |
| | -Complete a simple symmetry figure with respect to a specific line of symmetry | plot specified points and draw sides to complete a given polygon | | | |
| 5 | | | | | |
| | - Identify 3-D shapes, including cubes and other cuboids, from 2-D representations | -Identify, describe and represent the position of a shape following a reflection or translation, | | | |
| | -Know angles are measured in degrees: estimate and compare acute, obtuse and reflex | using the appropriate language, and know that the shape has not changed | | | |
| | angles | | | | |
| | -Draw given angles, and measure them in degrees (°) | | | | |
| | -Identify: | | | | |
| | -Angles at a point and 1 whole turn (total 360°) | | | | |

| | -Angles at a point on a straight line and half a turn (total 180°) -Other multiples of 90° -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 | |
|---|---|--|
| 6 | draw 2-D shapes using given dimensions and angles recognise, describe and build simple 3-D shapes, including making nets compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. draw shapes and nets accurately, using measuring tools and conventional markings and labels for lines and angles describe the properties of shapes and explain how unknown angles and lengths can be derived from known measurements relationships might be expressed algebraically for example, d = 2 × r; a = 180 - (b + c). | 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 Draw and label a pair of axes in all four quadrants with equal scaling. This extends their knowledge of one quadrant to all four quadrants, including the use of negative numbers Draw and label rectangles (including squares), parallelograms and rhombuses, specified by coordinates in the four quadrants, predicting missing coordinates using the properties of shapes. These might be expressed algebraically for example, translating vertex (a, b) to (a – 2, b + 3); (a, b) and (a + d, b + d) being opposite vertices of a square of side d |

SWOP - Maths Curriculum Map

MEASUREMENT

| Early Years Foundation Stage | | | | | | |
|------------------------------|--|---|---|--|--|--|
| Pro | Provision areas provide children with opportunities to discuss and explore space and measure | | | | | |
| | Key Stage 1 | | | | | |
| | Length and Height | Weight | Capacity/Volume | Time | Money | |
| 1 | Compare, describe and solve problems involving length and height [for example, long/short, longer/shorter, tall/short, double/half] | Compare, describe and solve problems involving weight and mass [for example, heavy/light, heavier than, lighter than] | Compare, describe and solve problems involving volume and capacity [for example, full/empty, more than, less than, half, half | Compare, describe and solve problems involving time [for example, quicker, slower, earlier, later] Sequence events in | Recognise and know the value of different denominations of coins and notes | |
| | length and height | Measure and begin to record weight and mass | Measure and begin to record capacity and volume | chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, | | |
| | Non Statutory Pupils move from using and comparing different types of quantities and measures using non-standard units, to using manageable common standard units. In order to become familiar with standard measures, pupils begin to use measuring tools such as a ruler | Non Statutory Pupils move from using and comparing different types of quantities and measures using non- standard units, to using manageable common standard units. In order to become familiar with standard measures, pupils begin to use measuring tools such | Non Statutory Pupils move from using and comparing different types of quantities and measures using non-standard units, to using manageable common standard units. In order to become familiar with standard measures, pupils begin to use measuring tools such as weighing scales | afternoon and evening] Measure and begin to record time (hours, minutes, seconds) 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. | | |
| | | as weighing scales | | Pupils use the language of time, including telling the time throughout the day, first using o'clock and then half past. | | |
| 2 | choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, | choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temp(°C); capacity (litres/ml) to the nearest appropriate unit | choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales | compare and sequence intervals of time 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 | recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value find different combinations of coins that equal the same amounts of money | |

| | scales, thermometers and measuring vessels compare and order lengths, mass, volume/capacity and record the results using >, < and = | using rulers, scales, thermometers and measuring vessels compare and order lengths, mass, volume/capacity and | thermometers and measuring vessels compare and order lengths, mass, volume/capacity and record the results using >, < and = | know the number of minutes in an hour and the number of hours in a day | solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change | |
|---|--|--|--|--|--|--|
| | | record the results using >, | | | | |
| | | erature | | | | |
| | | | Lower Key | Stage 2 | | |
| | Length and Perimeter | Weight | Capacity/Volume | Time | Money | |
| 3 | -Measure, compare, add and | Measure, compare, add | Measure, compare, add and | - Tell and write the time from | -Add and subtract amounts of | |
| | subtract: lengths (m/cm/mm); | and subtract: lengths | subtract: lengths | an analogue clock, including | money to give change, using | |
| | mass (kg/g); volume/capacity | (m/cm/mm); mass (kg/g); | (m/cm/mm); mass (kg/g); | using Roman numerals from I to | both £ and p in practical | |
| | (l/ml). | volume/capacity (l/ml). | volume/capacity (l/ml). | XII, and 12-hour and 24-hour | contexts. | |
| | -Measure the perimeter of | | | clocks. | | |
| | simple 2-D shapes. | | | -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, | | |
| | | | | am/pm, morning, afternoon, | | |
| | | | | noon and midnight. | | |
| | | | | -Know the number of seconds | | |
| | | | | in a minute and the number of | | |
| | | | | days in each month, year and | | |
| | | | | leap year. | | |
| | | | | -Compare durations of events | | |
| | | | | [for example, to calculate the | | |
| | | | | time taken by particular events | | |
| | | | | or tasks]. | | |
| | | | | | | |
| 4 | - Measure and calculate the perimeter of a rectilinear | -Convert between different example, kilometre to metr | units of measure [for e; kilogram to gram] | Read, write and convert time between analogue | Calculate different measures, including | |
| 1 | | | | | | |

| | figure (including squares) in centimetres and metres find the area of rectilinear shapes by counting squares estimate, compare and | | | and digital 12- and 24- hour clocks Solve problems involving converting from hours to minutes, minutes to seconds, years to months, | money in pounds and pence - Convert between different units of measure [for example, kilometre to metre; | |
|---|--|-------------------------------------|----------------------------------|---|---|-----------------------|
| | | | | weeks to days | kilogram to gram, hour | |
| | | | | | to minutej | |
| | | | Upper Key | Stage 2 | 1 | |
| | Perimeter and Area | Weight/length | Capacity/Volume | Time | Money | Temperature |
| 5 | Measure and calculate the | Convert between | - Estimate volume [for | -Solve problems involving | -Use all four operations to | |
| | perimeter of composite | different units of | example, using 1 cm ³ | converting between units of | solve problems involving | |
| | rectilinear shapes in | metric measure [for | blocks to build cuboids | time | measure [for example, length, | |
| | centimetres and metres | example, kilometre | (including cubes)] and | | mass, volume, money] using | |
| | - Calculate and compare the | and metre; | capacity [lot example, | | scaling | |
| | (including squares) | metre: centimetre | | | scalling | |
| | including using standard | and millimetre: gram | | | | |
| | units, square centimetres | and kilogram: litre | | | | |
| | (cm ²) and square metres | and millilitre] | | | | |
| | (m ²), and estimate the | - | | | | |
| | area of irregular shapes | | | | | |
| | - Estimate volume [for | | | | | |
| | example, using 1 cm ³ | | | | | |
| | blocks to build cuboids | | | | | |
| | (including cubes)] and | | | | | |
| | capacity [for example, | | | | | |
| | using water] | | | | | |
| 6 | - Recognise that shapes with | - Solve problems | Recognise when it is | | | - Using the number |
| | the same areas can have | involving the calculation | possible to use formulae | | | line, pupils use, add |
| | versa | of measure using | Calculate, estimate and | | | and pegative integers |
| | - recognise when it is possible | decimal notation up to | compare volume of cubes | | | for measures such as |
| | to use formulae for area of | three decimal places | and cuboids using | | | temperature |
| | shapes | where appropriate | standard units, including | | | |
| | - calculate the area of | - use, read, write and | cubic centimetres (cm3) | | | |
| | parallelograms and triangles | convert between | and cubic metres (m3), | | | |
| | | standard units, | and extending to other | | | |
| | | converting | units [for example, mm3 | | | |
| | | measurements of | and km3]. | | | |
| | | length, mass, volume | | | | |

| and time from a smaller | | |
|---------------------------|--|--|
| unit of measure to a | | |
| larger unit, and vice | | |
| versa, using decimal | | |
| notation to up to three | | |
| decimal places | | |
| - convert between miles | | |
| and kilometres | | |
| - connect conversion (for | | |
| example, from | | |
| kilometres to miles) to a | | |
| graphical | | |
| representation as | | |
| preparation for | | |
| understanding | | |
| linear/proportional | | |
| graphs | | |
| - know approximate | | |
| conversions and are | | |
| able to tell if an answer | | |
| is sensible | | |

SWOP - Maths Curriculum Map

STATISTICS

| Non statutory for this year group. However, statistics is introduced through cross curricular links For example, pictograms in Science and other data collection based activities. |
|--|
| -To interpret and construct simple pictograms, tally charts, block diagrams and tables. |
| -To ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity. |
| -Ask and answer questions about totalling and comparing categorical data. |
| -Interpret and present data using bar charts, pictograms and tables. |
| -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. |
| -Interpret and present discrete and continuous data using appropriate 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 |
| -Solve comparison, sum and difference problems using information presented in a line graph complete, read and interpret information in tables, including timetables |
| - Interpret and construct pie charts and line graphs and use these to solve problems |
| - Calculate and interpret the mean as an average |
| - Connect their work on angles, fractions and percentages to the interpretation of pie charts |
| - Encounter and draw graphs relating two variables, arising from their own enquiry and in other subjects |
| - Connect conversion from kilometres to miles in measurement to its graphical representation |
| - Know when it is appropriate to find the mean of a data set. |
| |