| Term | Autu | ımn 1 |
|-------------------------|--|--|
| Year R | Number | |
| Concept | Conceptual understanding and procedural fluency | |
| Knowledge and Skills | Crucial Knowledge: Children know that all numbers have meaning. Children know that a number can have significance (door, age). Children know that numbers can be represented by numerals. Children have an understanding of one to one correspondence (careful counting). Children know numeral representations of 5 or 10 and what they mean and what they are called. Children know numbers increase as they go up in the number system. Children know the value of each number. | Using Knowledge as a Skill: Children will recognise numerals 1 to 5/10. Children will count groups of objects, actions and objects that can't be moved. Children will order numbers. |
| Vocabulary | Children know the value of each number. Numbers (zero to ten), bigger and smaller, more and less | |
| Vocabulary Vear 1 | Numbers (2010 to teri), bigger and smaller, more and less | 1 Place Value |
| Concept | Conceptual understandir | ng and procedural fluency |
| Knowledge and Skills | Crucial Knowledge: Children need to know what numbers are (names of numbers). Children need to know that numbers all have value and in the number system increase in value. Children need to know numbers can be compared in relation to their value. Children need to know that 0 equals nothing. Children need to know what numerals look like and what they represent. Children need to know the place value of 10 in a 2 digit number. Children need to know that numbers can be represented in different ways. | Using Knowledge as a Skill: Children need to be able to count forward and backwards. Children need to be able to order numbers by numerical value. Children need to identify and recognise numbers. Children need to be able to form digits 0-9. Children need to find one more and one less than a number. Children need represent numbers as words. |
| Vocabulary | More, Less, Equal to, More than, Less than, Fewer, Most, Les | ast |
| Year 2 | Number and | Place Value |
| Knowledge and Skills | Crucial Knowledge: Children will recap from year one: • That the number system increases • Numbers can be compared • Names of numbers and what they represent • Have knowledge of 10 more • Know that numbers can be represented in different ways. Children need to understand the value of each digit in a 2 digit number. (tens and ones) Children need to know what estimation means. Children need to know what <> = represent. Estimate | Using Knowledge as a Skill: Children will find 10 more and 10 less than a number. Children need to be able to build and partition 2 digit numbers into tens and ones and other ways. Children need to estimate. Children need to order numbers and compare them using <> =. Children need to represent numbers to 100 in written form and numerals. Children need to apply their knowledge to solve problems. |
| Vocabulary | Revisit year 1 More, Less, Equal to, More than, Less than, Fewer, Most, Les | ast |

Foxhills Infant School Curriculum

| Term | Autum | nn 2 |
|------------|---|---|
| Year R | Numł | ber |
| Concept | Conceptual understanding | and procedural fluency |
| | Crucial Knowledge: | Using Knowledge as a Skill: |
| | • Children need to revisit numbers, counting and names. | Children can estimate and check |
| | • Children need to know the meaning of 'more' and | • Children need to be able to compare sets of objects. |
| | 'fewer' | Children need to find a total by counting. |
| Knowledge | • Children need to know the meaning of total and | |
| and Skills | altogether | |
| | Shar | |
| | Children need to know that 2d shapes are flat | Children need to be able to recognice and name |
| | Children need to know that 2d shapes are ralid | Children need to be able to recognise and name shapes |
| | Children need to know that 30 shapes are solid. | stidpes. |
| | Children need to know names of shapes. | |
| Vocabularv | Numbers (zero to ten), more and fewer, altogether, estimate, com | pare, |
| , , | square, circle, triangle, pentagon, hexagon, octagon, rectangle, cub | be, cuboid, cylinder, prism, pyramid, flat, solid, hold, |
| Year 1 | Addition and S | Subtraction |
| Concept | Conceptual understanding | and procedural fluency |
| | Crucial Knowledge: | Using Knowledge as a Skill: |
| | Children need to know what +means | Children need to interpret and write number sentences |
| | Children need to know what – means | using + - = |
| | Children need to know what = means | Children need to create fact families to show the |
| | Children need to know what a number bond is | relationship between addition and subtraction. |
| | Children need to know that addition is commutative | Children need to solve missing number problems applying their knowledge |
| | Children need to know what addition is the inverse of | their knowledge. |
| | subtraction and subtraction is not commutative | Children need to add and subtract within 20. |
| Knowladge | Revisit numbers having meaning including 0 equalling nothing | |
| | Children need to know that adding makes things bigger | |
| and Skills | Children need to know that subtraction makes things smaller | |
| | Children need to knows equal means the same | |
| | Snap | |
| | Crucial Knowledge: | Using Knowledge as a Skill: |
| | Children need to know 2d shapes are flat. | Children need to recognise and name 2d and 3d |
| | Children need to know 3d shapes can be held. | shapes. |
| | Children need to recognise a shape, in any shape | Children need to sort shapes according to their |
| | orientation. | properties. |
| | Children need to know names of shapes. | |
| | Addition and subtraction, add, subtract (and other words for (for e | xample plus, take away etc), commutative, inverse, bigger, |
| Vocabulary | smaller, equal | |
| - | square, circle, triangle, pentagon, hexagon, octagon, rectangle, cul | pe, cuboids, cylinder, prism, pyramid, flat, solid, hold |
| Year 2 | Addition and S | Subtraction |
| Concept | Conceptual understanding | and procedural fluency |
| | Crucial Knowledge: | Using Knowledge as a Skill: |
| | Revisit signs from year 1 | Children need to add and subtract |
| | Children need to know number bonds to 20 | • Children can derive and use number bonds to 20 to |
| | Children have the knowledge of mental strategies | help find number bonds to 100 |
| | Children know that adding makes things higger | Children can add and subtract 2 digit and ones |
| | Children know that adding makes things bigger | Children can add and subtract 2 digit and tons |
| | Children know that subtraction makes things smaller | Children can add and subtract 2 digit and 2 digit |
| | • Children know equals means the same revisit from year | |
| | | Children can add three one digit numbers |
| | Children know that addition is commutative (revisit | Children can use inverse to check calculations |
| | from year 1) | Children need to solve missing number problem |
| Knowledge | Children know that subtraction is the inverse of addition | |
| and Skills | (revisit from year 1) | |
| | Children know that subtraction is not commutative | |
| | (revisit from year 1) | |
| | Shap | De la |
| | Crucial Knowledge: | Using Knowledge as a Skill: |
| | • Children need to know shape names (revisit from year | Children need to name 2d and 3d shapes. |
| | 1) | Children need to identify 2D shapes on faces. |
| | Children need to know properties of 2d and 3d shapes | Children need to identify properties of 2d and 3d. |
| | Children need to know, understand and use faces | Children need to find line of symmetry. |
| | edges, corners, verifices and sides | Children need to compare and sort. |
| | Children need to know what symmetry means | Children need to recognise shapes in everyday objects. |
| | Addition subtraction adding subtracting plus minus take away | left altogether total number bonds commutative inverse |
| | Audition, subtraction, adding, subtracting, plus, minus, take away, lett, altogether, total, number bonds, commutative, inverse | |
| Vocabulary | vertices, edges, sides, faces, symmetry | se, cubolu, cylinder, prism, pyramiu, nac, soliu, nolu, corners, |
| | vertices, euges, sides, iddes, symmetry | as suboid sylinder prism pursmid flat solid hold |
| | square, circle, thangle, pentagon, nexagon, octagon, rectangle, cur | be, cubolu, cyllinder, pristif, pyramiu, nat, solid, nold |

| Term | Spring 1 | |
|-------------------------|--|---|
| Year R | Number | |
| Concept | | |
| Knowledge and Skills | Crucial Knowledge: Children need to know how to hold a marking instrument. Children need to know how to make a mark. Children need to understanding how to find how many through adding and subtracting. Children need to recognise the numbers 1-10. Children need to know comparative language. Children need to know what a group is and how to form them. Children need to know the names of numbers beyond ten. Children need to have knowledge of money – what it is – what it is for – why we have it Children need to understand the vocabulary of more and less. Children need to understand how to add and take away and the language used to describe this. | Using Knowledge as a Skill: Revisit from Autumn: Children need to start to record their own maths answers and problems. Children need to practically add and subtract Children need to select correct numerals to 10 Children need to compare 2 groups. Children need to separate groups of 3 or 4 objects in different ways. Children need to counts objects, and immovable objects. Children need to account beyond 10 Children need to articulate more and fewer. Children need to articulate more and fewer. Children need to find a total of 2 groups by counting all (revisit) Children need to say one more and one less. Children need to practically add and subtract and describe what they have done using language. Children need to record using their own marks and created articulate more dusing their own marks and created area comment. |
| Vocabulary | Add, subtract, name of numbers, big, small, more, fewer, less, pe left, altogether, total | ence, coins, 1p, 2p, 5p, 10p, 20p, 50p, £1, £2, £5 etc, takeaway, |
| Year 1 | Multiplicatio | n and Division |
| Concept | | |
| Knowledge and Skills | Crucial Knowledge: Children understand the language and how to multiply and divide. Children understand what multiplication means Children understand what division means Children know multiplication is a form of repeated addition | Using Knowledge as a Skill: Children need to multiply numbers together. Children need to divide numbers by sharing. Children need to count in 2s. Children need to count in 5s. Children need to count in 10s. Children need to solve multiplication and division problems. |
| | Fractions | |
| | Crucial Knowledge: Children understand fractions is an equal part of a whole. Children know a half. Children know a quarter | Using Knowledge as a Skill: Children can recognise, find and name a half as one of two equal parts of a shape, object or quantity. Children can recognise, find and name a quarter as one of two equal parts of a shape, object or quantity. |
| | Position and Direction | |
| | Crucial Knowledge: Children know positional language. Children know directional language. Children know movement language. | Using Knowledge as a Skill: Children need to describe position, direction and movement including whole, half, quarter and three-quarter turn/carry out. |
| Vocabulary | Times, divide, multiply, share, jumps of, by, multiplication, repeated addition, groups of Half, quarter, equal, part, whole Above, below, in between, in front, behind, turn, right, left, quarter, forwards, backwards | |

Foxhills Infant School Curriculum

| Year 2 | Multiplication and | Division |
|-------------------------|--|---|
| Concept | | |
| Knowledge and Skills | Crucial Knowledge: Children know what an odd number is. Children know what an even number is. Children know can count in more than 1 and recognise patterns 5, 10, 2 (even). Children know the meaning of multiply and divide and equal. Children know how to multiply and divide. Children know that multiply is commutative (division is not!) Children know that multiplication is repeated addition Children know they are the inverse | Using Knowledge as a Skill: Children recognise odd and even numbers Children recall and use multiply and divide facts for 2,5, 10 multiplication Children count in 2s, 5s, 10s Children calculate mathematical statements for multiply and divide Children identify how to solve the problem by which pictorial representation (sharing/ arrays) Children can show multiply is commutative Children can interpret an array by identifying the number sentence Children can show division and multiply are inverse through fact families and missing number problems |
| | Fractions | |
| | Crucial Knowledge: Children know what a fraction is Children know how to find a fraction Children know what the numbers in the fraction represent Children know names of 1/3, 1/4 / 2/4 and ¾ Children know what equivalence means | Using Knowledge as a Skill: Children can recognise, find, write, name 1/, 1/4, 2/4 and ¾ of length, shape, set off objects or quantity Children can solve fraction calculations ½ of f6 = 3 Children can recognise equivalence 2/4 = ½ |
| | Position and Di | rection |
| | Crucial Knowledge: Children have knowledge of what a pattern is. Children know what a sequence is Children know of position, directional and movement language Children know what is meant by clockwise and anticlockwise | Using Knowledge as a Skill: Children need to recognise a pattern and sequence Children can order and arrange combinations of mathematical objects in patterns and sequences Children need to describe position and direction and movement (straight line and turns ¼ ½ ¾ - clockwise and anticlock wise |
| Vocabulary | Half, quarter, equal, part, whole, three quarters, 2 quarters, same Above, below, in between, in front, behind, turn, right, left, quarter, forwards, backwards, clockwise, anti-clockwise | |

Term

| Year R | Measurement | |
|------------------------------------|---|---|
| Concept | Crucial Knowledge: | Licing Knowledge as a Skill |
| Knowledge and Skills | Children need to know positional language. Children know names of shapes of 2d and 3d shapes. Children know measurement language such as longest, shortest, heavier, lighter etc | Children need to recognise shapes in the environment and those that are similar. Children need to construct with them and talks about them. Children use positional language to describe. Children describes every day shapes. Children use shapes appropriately Children identify and name 2d and 3d shapes Children need to order 2 or 3 items in length, height, weight and capacity Children need to create a pattern. |
| Vocabulary | Above, up, below, behind, in between, in front Longest, shortest, heavier, lighter, longer, shorter, heavy | |
| Year 1 | Mea | surement |
| Concept | | |
| Knowledge and Skills | Crucial Knowledge: Children will understand and use comparative language for each measure. | Using Knowledge as a Skill: • Children will compare length, height, mass, weight, capacity, volume. |
| | Children know how to measure the measurement (units it's recorded in and equipment required) | Children will describe length, height, mass, weight, capacity and volume. |
| | Children know what to record for the appropriate scale. | Children will solve problems using height, weight, length, mass, capacity and volume. Children will measure and record height, weight, length, mass, capacity and volume. |
| Vocabulary | More, less, fewer, compare, measure, cm, kg, long, short, longer, shorter, longest, heaviest, lightest, shortest, full, empty, hal full | |
| Year 2 | Measurement | |
| Concept Knowledge and Skills | Crucial Knowledge: Children will know the units for each measure. Children will know of what/ how to estimate. | Using Knowledge as a Skill: Children can identify and use appropriate standard units to estimate and measure accurately in any direction (length and height, mass, temperature and capacity). Children will measure to the nearest unit using appropriate equipment. Children can compare and order lengths, mass, volume, capacity using <> = to record |
| | | Time |
| | Crucial Knowledge: Children know what each number represents (5 minutes + hour) on a clock. (revisit from year 1) Children know that the minute hand is on the 6 for half past and 12 for o'clock. (revisit from year 1 Children know that the little hand tell you the hour. (revisit from year 1) Children know that the long hand tell you the minutes. (revisit from year 1) Children know that the 3 is quarter past as it has travelled one quarter. Children know that the 9 is quarter to as it has travelled 3 quarters. | Using Knowledge as a Skill: Children need to tell and write the time to the nearest 5 minutes/ quarter. (read a clock and draw the hands on). |
| Vocabulary | full , degrees, hot, compare, measure, cm, kg, long, short, loi full , degrees, hot, cold Minutes, hours, days, weeks, month, 24 hour, clockwise, ant | nger, shorter, longest, neaviest, lightest, shortest, full, empty, half :i-clockwise, o clock, half past, quarter past, quarter to |

Spring 2

| Term | Sumi | mer 1 |
|-------------------------|---|---|
| Year R | Number | |
| Concept | | |
| Knowledge and Skills | Crucial Knowledge: Revisit spring 1 Children need to understand what is meant by doubling. Children need to understand what is meant by halving. Children need to know that doubling means twice as many. Children need to know that half means splitting the number in half and comparing the groups to make sure they are equal. | Using Knowledge as a Skill: Recap Spring 1 Children can use everyday language related to money. Children can find the total of 2 groups by counting all. Children need to say one more and ones less Children can practically add and sibtract using language Children need to record using own marks and creates own maths problems Children need to double and half (through sharing). |
| Vocabulary | Revisit language from spring 1 Doubling, halving, twice, two, compare, equal | |
| Year 1 | Time | |
| Concept | | |
| Knowledge and Skills | Crucial Knowledge: Children know time vocab to sequence Children understand the time periods in a day Children understand how to order 1st 2nd and 3rd Children know language related to dates and how they all combine – 24 hours in a day etc Children know what each number represents (5 minutes + hour) on a clock. Children know that the minute hand is on the 6 for half past and 12 for o'clock. Children know that the little hand tell you the hour. Children know that the long hand tell you the minutes. | Using Knowledge as a Skill: Children need to tell the time to the hour and half past the hour by reading a clock. Children need to draw the hands on a clock to show the above. |
| Vocabulary | First, second, third, next, then, after, hour, minutes, months, morning, afternoon, o clock., half past | |
| Year 2 | Stat | istics |
| Concept | | |
| Knowledge and Skills | Crucial Knowledge: Children need to know what each diagrams features are and how to interpret this. Children need to understand what each diagram represents and how this does it. | Using Knowledge as a Skill: Children can interpret and construct simple pictograms, tally charts, block diagrams and simple tables. Children can ask and answer simple questions by counting the number of object in each category and sorting the category by quantity. Children can ask and answer simple questions about totalling and comparing categorical data. |
| vocapulary | Pictogram, block diagram, tally chart | |

Foxhills Infant School Curriculum

| Term | Summer 2 | |
|-------------------------|---|--|
| Year R | Time/ consolidate | |
| Concept | | |
| Knowledge and Skills | Crucial Knowledge: Children need to know language to describe time long, short, minutes, hours, days, months etc. Children need to have an understanding of time structure – first, second etc. Children need to explore the equipment to measure short periods of time and how this works. | Using Knowledge as a Skill: Children use everyday language related to time. Children need to order and sequence familiar events. Children need to measures short periods of time in a simple way. |
| Vocabulary | Long, short, minute, hour, days, months, first, second, third, quick, slow, morning, afternoon | |
| Year 1 | Money / problem solving | |
| Concept | | |
| Knowledge and Skills | Crucial Knowledge: Children know that each coin and note represents a value and what it is. | Using Knowledge as a Skill: Children need to recognise the value of each coin and note Children can solve problems involving money |
| | • Children will revisit all knowledge (using teachers AfL and discussion with maths lead). | Children can solve maths problems using all mathematical themes covered over the year. |
| Vocabulary | Coin, pence, pounds | |
| Year 2 | Problem solving | |
| Concept | | |
| Knowledge and Skills | Crucial Knowledge: Children will revisit all knowledge (using teachers AfL and discussion with maths lead). | Using Knowledge as a Skill: Children can solve maths problems using all mathematical themes covered over the year. |
| Vocabulary | Language need to be revisited when revisiting the knowledge | |