MATHEMATICS – YEARLY OVERVIEWS

JUNCTION FARM PRIMARY SCHOOL

NURSERY – MATHEMATICS OVERVIEW				
Term 1	**Term 2**	**Term 3**	**Term 4**	**Term 5**
Number: •Uses number words, like one or two and sometimes responds accurately when asked to give one or two things **Numerical Patterns:** •Begins to say numbers in order, some of which are in the right order (ordinality) **Shape, space & measures:** •Responds to language of position and direction e.g. on and under, forward and backwards	**Number:** •Uses some number names and number language within play **Numerical Patterns:** •May enjoy counting verbally as far as they can go •Begin to compare quantities of objects •Begin to develop the skill of subitising **Shape, space & measures:** •Responds to both informal language and common shape names	**Number:** •Joins in with number rhymes. •Able to count orally to 3 •Recognise numbers to 3 **Numerical Patterns:** •Explores and adds to simple linear patterns of two or three repeating items •Joins in number songs e.g. 5 Little Ducks, 5 Little Speckled Frogs •Subitises one, two and three objects (without counting) **Shape, space & measures:** •Shows awareness of shape similarities and differences between objects •Recalls a sequence of events in everyday life and stories	**Number:** •To say one number name for each item •To show 'finger' numbers to 5 •Accurate 1:1 correspondence for amounts to 5 •Knows when a group has more than another **Numerical Patterns:** •Makes arrangements with objects during play •Rote count to 10 with support from adults •Begins to explore quantities using the language more and less **Shape, space & measures:** •Enjoys partitioning and combining shapes to make new shapes with 2D and 3D shapes. •Begin to talk about shapes and recognise them in the environment •Uses shape names accurately – circle, triangle and square	**Number:** •Recognise numbers to 5 (in order) •Recognises numbers out of sequence •Have an awareness of numbers in the environment •Begins to represent numbers using marks/fingers **Numerical Patterns:** •Order numbers to 5 with support. •Can recite numbers to 10 •Know the number which comes next in a sequence of numbers to 5 •Begin to recognise that each counting number is more than the one before. •Begin to use one-to-one correspondence **Shape, space & measures:** •Begin to understand positional language. •In meaningful contexts, use language related to quantities, height/length, mass/weight and capacity/volume. •Look for and have awareness of patterns and relationships within the environment.

JUNCTION FARM PRIMARY SCHOOL

RECEPTION – MATHEMATICS OVERVIEW		
Autumn	**Spring**	**Summer**
Number •Recognise and name numbers 0 to 7 – when not in order •Counting,1:1 correspondence to 7 •Know that anything can be counted (to 7) •Count an irregular arrangement to 5 •Understand that zero means nothing •Match numeral to quantity to 7 •Display a knowledge of the composition of numbers to 7 •Subitise to 5 - dots on dice, Numicon piece, ten-frame, **Numerical Patterns** • Count by rote forwards and backwards to 10 •Hold fingers up correctly for each number to 10 •Count on and back in 1s from any number to 10 – visual aid and fingers •Know by heart the number before and after numbers to 5 •Chant rhymes involving numbers e.g. 1, 2 buckle my shoe… •Chant a number song involving even/ odd numbers	**Number** •Recognise and read numbers to 10 including when not in order with the aid of a number line, picture clues •Accurate 1:1 correspondence up to 10 objects in different arrays •Match numeral to quantity to 10 •Display a deep understanding of the composition of numbers to 10 •Becoming more confident with the part whole model for numbers to 10 •Solve addition and subtraction calculations to 10 practically and visually •Find 1 more and 1 less using numbers to 10 •Quick mental recall - addition facts to 10 (fingers to help) **Numerical Patterns** •Count in 1s forwards to 20 and beyond – visual aid •Count forwards in 1s from any number (to 20) – visual aid •Count back in 1s from 20– visual aid •Say the number before and after to 10 - visual aid •Compare a variety of quantities up to 5 •Use the vocabulary more, most, greater, fewer, less than and equals •Explore and recognise odd and even numbers to 10 using Numicon and objects, recognising and discussing the patterns •Know that addition and subtraction are related	**Number** •Display a deep understanding of the composition of numbers to 10 •Subitise to 10 •Understand 1 more and 1 less for numbers to 10 (NP) •Mentally recall number bonds to 5 without apparatus/ begin recall to 10 •Calculate addition bonds and subtraction facts to/within 10 using apparatus and/or number line if needed •Mentally, quickly recall all doubles to 5 (ie. double 1, 2, 3, 4, 5) (NP) •Mentally, quickly recall half of 2,4,6, 8,and 10 (NP) •Know that doubling and halving are related (inverse operation) **Numerical Patterns** • Count by rote from 0 forwards to 20 and beyond •Compare and order a variety of quantities up to 10 (N) •Use the vocabulary more, most, greater fewer, less than etc. up to 10 (N) •Identifies odd and even numbers to 10 represented by structures •Doubles to 5 concrete aid or fingers •Half of numbers 2,4,6,8,10 - concrete

Shape, space & measures – not ELG (by the end of Reception):
Measures
•Enjoys tackling problems involving prediction and discussion of comparisons of length
•Becomes familiar with measuring tools in everyday experiences and play Is increasingly able to order and sequence events using everyday language related to time
Spatial Awareness
•Uses spatial language, including following and giving directions, using relative terms
•Uses informal language and analogies, (e.g. heart-shaped and hand-shaped leaves), as well as mathematical terms to describe shapes

MATHEMATICS – YEARLY OVERVIEWS

JUNCTION FARM PRIMARY SCHOOL

YEAR 1 – MATHEMATICS OVERVIEW					
Autumn 1	**Autumn 2**	**Spring 1**	**Spring 2**	**Summer 1**	**Summer 2**
• Place Value –to 10 • Place Value –to 20 • Place value – counting in 2s • Addition & subtraction - within 10 • Addition & subtraction - number bonds to 10 • Geometry – properties of shapes – 2D shapes • Measurement – sequencing of events	• Place value to 50 • Place value – counting in 10s and 5s • Addition & subtraction -within 20 • Geometry – properties of shapes – 3D shapes • Fractions – halves • Measurement – time to the hour *Including autumn assessments and consolidation*	• Place value –to 100 • Addition & subtraction – number bonds to 20 • Multiplication & division – grouping/ sharing • Fractions - quarters • Measurement – length and height • Measurement – dates	• Place value – number patterns (odd and even) • Multiplication & division – doubling, halving and arrays • Geometry – properties of shapes - 2D & 3D shapes • Measurement – mass & weight *Including spring assessments and consolidation*	• Place value – represent numbers to 100, including on a number line • Addition & Subtraction – worded problems within 20 • Fractions- halves and quarters • Multiplication & division problems • Measurement – time to half past • Measurement – capacity & volume	• Addition & subtraction – missing number problems • Measurement – time • Measurement – money • Geometry – position and direction *Including summer assessments and consolidation of Y1 objectives*

MATHEMATICS – YEARLY OVERVIEWS

JUNCTION FARM PRIMARY SCHOOL

YEAR 2 – MATHEMATICS OVERVIEW					
Autumn 1	**Autumn 2**	**Spring 1**	**Spring 2**	**Summer 1**	**Summer 2**
• Place Value – 2-digit numbers/ compare and order • Place Value - counting in 2s/ 5s from 0 and in 10s from any number – forwards and backwards • Addition & Subtraction - facts to 100 • Multiplication & Division - 2x, 10x, 5x table/ commutativity with multiplication • Fractions - of amounts (unit-fractions) • Geometry – properties of shape - 2D shapes • Measurement - Length & Height	• Place Value - Counting in 3s • Addition & Subtraction - commutative law and inverse • Multiplication & division - division facts for 2x, 5x, 10x • Fractions - of amounts (non-unit fractions 2/4 and 3/4) • Measurement - time (quarter past and quarter to) • Geometry – properties of shape - 3D shapes *Including autumn assessments and consolidation*	• Place Value - non-standard partitioning of 2-digit numbers • Addition & Subtraction - mental methods • Addition and Subtraction - written methods (column) • Fractions - writing simple fractions of amounts • Geometry – properties of shape – 2D and 3D shapes	• Place Value - identify, represent and estimate 2-digit numbers (including number lines) • Addition & Subtraction – problems • Measurement – money • Measurement - time (5mins) *Including spring assessments and consolidation*	• Place Value - problems • Multiplication and division – problems • Measurement - mass & weight • Measurement - capacity & volume • Measurement - time – compare and sequence	• Addition and Subtraction – problems (progressing to more than 1 step) • Measurement – temperature • Geometry – position and direction (including turns) • Statistics - tally charts, pictograms, block diagrams and tables *Including summer assessments and consolidation of Y2 objectives*

MATHEMATICS – YEARLY OVERVIEWS

YEAR 3 – MATHEMATICS OVERVIEW					
Autumn 1	**Autumn 2**	**Spring 1**	**Spring 2**	**Summer 1**	**Summer 2**
• Place Value - 3-digit numbers • Place Value -10 or 100 more or less • Addition & Subtraction - mental methods • Addition & Subtraction - written methods (column) • Multiplication & Division x/÷ by 3, 4, 8 • Fractions - wholes/ Equivalents	• Place Value- multiples of 4, 8, 50 and 100 from 0 • Multiplication & Division x mental and written method (column) • Multiplication & Division ÷ mental and written method • Fractions -finding fractions • Measurement – time • Geometry – Properties of Shape - angles/turns *Including autumn assessments and consolidation*	• Place Value - identify, represent & estimate • Addition & Subtraction - estimate and inverse • Fractions - tenths • Measurement - length • Measurement - perimeter • Geometry – Properties of Shape - lines	• Multiplication & Division - problems • Fractions - compare/order • Fractions - add/subtract • Measurement – time *Including spring assessments and consolidation*	• Place Value - problems • Addition & Subtraction - problems • Fractions - problems • Measurement • - mass • Measurement • - money • Statistics - interpret	• Multiplication & Division - problems • Measurement – volume/capacity • Geometry – Properties of Shapes – 2D/3D • Statistics – construct *Including summer assessments and consolidation of Y3 objectives*

MATHEMATICS – YEARLY OVERVIEWS

YEAR 4 – MATHEMATICS OVERVIEW					
Autumn 1	**Autumn 2**	**Spring 1**	**Spring 2**	**Summer 1**	**Summer 2**
• Place Value -4-digit numbers • Place Value - counting in multiples of 25/1000 and 1000 more or less • Addition and Subtraction - column method • Multiplication and Division -3, 6, 9 times tables • Multiplication and Division - 7, 11, 12 times tables • Fractions - equivalent fractions • Fractions - fractions of amounts	• Place Value - rounding • Multiplication and Division - written methods – short multiplication/ short division • Fractions - decimals (hundredths) • Measurement - conversions • Geometry – Properties of Shapes – angles • Geometry – Position and Direction - co-ordinates *Including autumn assessments and consolidation*	• Place Value - negative numbers • Addition and Subtraction - estimate and use inverse • Multiplication and Division - factor pairs • Fractions – x and ÷ by 10 and 100 • Fractions - add and subtract • Measurement – time	• Place Value - identify, represent and estimate • Fractions - compare and round decimals • Measurement - perimeter and area • Geometry – Properties of Shapes -symmetry *Including spring assessments and consolidation*	• Place Value - Roman Numerals • Addition and Subtraction - 2-step problems • Measurement - money • Fractions - problems • Geometry – Properties of Shapes - compare and classify • Statistics - interpret	• Multiplication and Division - problems • Measurement - time conversions • Geometry – Position and Direction - movements • Statistics -present *Including summer assessments and consolidation of Y4 objectives*

MATHEMATICS – YEARLY OVERVIEWS

JUNCTION FARM PRIMARY SCHOOL

YEAR 5 – MATHEMATICS OVERVIEW					
Autumn 1	**Autumn 2**	**Spring 1**	**Spring 2**	**Summer 1**	**Summer 2**
• Place Value - to 1 million • Addition & Subtraction - mental and written methods (column) • Multiplication & Division -short and long multiplication • Multiplication & Division -short division, interpreting remainders • Multiplication & Division - multiples, factors and primes • Fractions - mixed numbers&improper fractions /compare and order/add and subtract • Geometry – Properties of Shapes – angle types/drawing angles	• Place Value - powers of 10 • Multiplication & Division - mental calculations – including squared and cubed • Fractions - thousandths • Multiplication & Division - multiply and divide by 10,100,1000 • Measurement – conversions • Geometry – Position and Direction – reflection and translation *Including autumn assessments and consolidation*	• Place Value - negative numbers • Place Value - rounding • Addition & Subtraction - rounding to check • Fractions - equivalents • Measurement - area and perimeter • Statistics -tables and timetables	• Place Value - Roman Numerals to 1000 • Fractions - fractions, decimals and percentages • Measurement – volume • Geometry – Properties of Shapes – nets *Including spring assessments and consolidation*	• Place Value - problems • Addition & Subtraction - problems • Multiplication & Division - problems • Measurement - time conversions • Geometry – Properties of Shapes - angles • Statistics - line graphs	• Multiplication & Division - problems • Fractions – multiplying • Measurement - metric and imperial • Geometry – Properties of Shapes - shape properties *Including summer assessments and consolidation of Y5 objectives*

MATHEMATICS – YEARLY OVERVIEWS

YEAR 6 – MATHEMATICS OVERVIEW					
Autumn 1	**Autumn 2**	**Spring 1**	**Spring 2**	**Summer 1**	**Summer 2**
• Place Value – to 10 million • Addition, subtraction, multiplication and division – long multiplication/short division (interpreting remainders) • Addition, subtraction, multiplication and division – common multiples, common factors, primes • Fractions – simplify, order and compare • Fractions – add and subtract • Fractions – multiply and divide • Geometry – Properties of Shapes – compare and classify	• Place Value – rounding • Addition, subtraction, multiplication and division – estimate to check • Addition, subtraction, multiplication and division – order of operations • Fractions – fractions, decimals and percentages equivalences • Ratio and proportion - percentages of amounts • Measurement – conversions and solving problems *Including autumn assessments and consolidation*	• Place Value – negative numbers • Addition, subtraction, multiplication and division – multi-step problems • Geometry – Properties of Shapes - angles • Measurement – area and perimeter • Measurement – area and volume • Geometry – Position and Direction – co-ordinates, translations and reflections	• Ratio and Proportion - problems • Geometry – Properties of Shape – drawing 2D and making 3D, including circle knowledge • Algebra • Statistics – pie chart/ line graphs/ mean *Including spring assessments and consolidation*	• Addition, Subtraction, Multiplication & Division -long division • Algebra • KS2 curriculum consolidation • KS2 SATs	• Themed Projects – Consolidation of KS2 Curriculum