



# Woodlands Park Primary and Nursery School

## Curriculum Map – Maths



|        | Early Years  | Key Stage One  |  | Key Stage Two   |   |  |   |
|--------|--|--|--|---|---|--|---|
| Term   | Reception  | Year One   | Year Two   | Year Three  | Year Four   | Year Five  | Year Six  |
| Autumn | <p><u>Number and Place Value:</u> Numbers to 5</p> <p><u>Addition and Subtractions:</u> sorting into groups</p> <p><u>Number and Place Value:</u> comparing groups</p> <p>comparing quantities of identical objects and non-identical objects.</p> <p><u>Addition and Subtractions:</u> Change within 5 – one more/one less</p> <p><u>Measurement: Time</u> – my day</p> | <p><u>Numbers: Counting</u> – sorting and counting, comparing numbers to 20</p> <p><u>Number: Addition and Subtraction</u> – part-whole model, addition facts, counting backwards – subtraction</p> <p><u>Geometry: Shape</u> 2d and 3d shapes</p> <p><u>Numbers: Place Value</u> tens and ones.</p> | <p><u>Number: Place value</u> within 100, place value chart. Tens and ones.</p> <p>Part-whole model</p> <p><u>Number: Addition and subtraction</u> – bonds to 20 and 100, adding and subtracting 2 and 1 digit numbers</p> <p><u>Measurement: Money</u></p> <p><u>Number: multiplication and division</u> – making and adding = groups</p> | <p><u>Number: Place Value</u></p> <p>Represent numbers to 100, 1000, 100s, 10s and 1s, Number line to 1000</p> <p>Count in 50s</p> <p><u>Number: Addition and Subtraction:</u> + and – multiples of 100, 3 digit and 1 digit, add and subtract 100s</p> <p><u>Number: Multiplication and Division:</u> 2,3,5 times tables, equal groups, divide by 2,5,10</p> | <p><u>Number: Place Value</u></p> <p>Represent numbers to 1000 – 100s, 10s and 1s, number line to 1000, round to nearest 100, partitioning, compare numbers.</p> <p><u>Number: Addition and Subtraction:</u> add 2 three digit numbers, add 2 four digit numbers, subtract 3 digit number from 3 digit number, subtract 4 digit numbers, efficient subtraction.</p> <p><u>Measurement: Length and Perimeter:</u> equivalent lengths, m and cm, mm and cm, kilometres, add and subtract lengths, perimeter on a grid, perimeter of a rectangle</p> <p><u>Number: Multiplication and Division</u> multiply and divide by 1, 0, 10, 100, 3, 6,9,7. 3,6,9 and 7 times tables.</p> | <p><u>Number: Place Value:</u> 1000s, 100s, 1s, rounding to nearest 10, 100 and 1000, numbers to 10,000. Compare and order numbers to 100,000 numbers to 1000,000, negative numbers, Roman numerals to 1000</p> <p><u>Number: Addition and Subtraction:</u> Add and subtract two 4 digit numbers, column method, inverse operations, multi-step addition and subtraction problems.</p> <p><u>Statistics:</u> Interpret charts, introduce line graphs, read and interpret tables, two way tables, timetables</p> <p><u>Number: Multiplication and Division:</u> multiples, factors, common factors, prime numbers, square and cube numbers. Multiply and divide by 10, 100, 1000</p> <p><u>Measurement: Perimeter and Area:</u> measure perimeter, calculate perimeter, area of rectangles and irregular and compound shapes.</p> | <p><u>Number: Place Value:</u> numbers to 10,000, 100,000, 1,000,000 and 10,000,000, round numbers, negative numbers</p> <p><u>Number: Addition and Subtraction;</u> multiplication and division: add whole number with more than 4 digit, inverse operations, multiply 4 digit by 1 digit, digits by 2 digits, 3 digits by 2 digit, divid 4 digits by 1 digit. Divide with remainders, short division, division using factors</p> <p><u>Number: Fractions:</u> equivalent fractions, simplify fractions, improper fractions to mixed numbers, fractions on a number line, add and subtract fractions, add and subtract mixed numbers, multiply and divide fractions by integers, four rules with fractions, fractions of an amount – find the whole.</p> <p><u>Geometry: Position and Direction:</u> The first quadrant, four quadrants, translations, reflections</p> |

|               |  |   |   |   |   |  |   |
|---------------|--|---|---|---|---|--|---|
| <p>Spring</p> | <p><u>Addition and Subtraction:</u><br/>Numbers to 5 – introducing zero, number bonds to 5</p> <p><u>Number and Place Value:</u><br/>Numbers to 10 – counting to 6,7 and 8, counting to 9 and 10, comparing groups up to 10</p> <p><u>Addition and subtraction:</u><br/>Addition to 10 – combining two groups to find the whole, number bonds to 10 – ten frame, number bonds to 10 – part-whole model</p> <p><u>Geometry: Shape and Space</u> – spatial awareness, 3d and 2d shapes</p> | <p><u>Number: Addition and Subtraction</u> within 20 find and make number bonds subtraction not crossing ten and crossing ten.</p> <p><u>Number: Place Value</u> within 50, represent and compare numbers within 50. Count in 2s and 5s</p> <p><u>Measurement: Length and Height</u> – comparing lengths and heights.</p> <p><u>Measurement: Weight and Volume</u> – introduce mass and weight, capacity and volume, measure and compare.</p> | <p><u>Number: Multiplication and division</u> – working with = groups, making doubles, 2 and 5 times tables.</p> <p>Dividing by 2 and 5, odd and even numbers</p> <p><u>Statistics:</u> Tally charts, pictograms, block diagrams.</p> <p><u>Geometry: Properties of shapes</u> – sides, vertices, edges, patterns</p> <p><u>Number: Fractions</u> – equal parts, half, quarter, third, unit and non-unit fractions.</p> | <p><u>Number: Multiplication and Division:</u> consolidate 2,4 and 8 times tables, related calculations, multiply and divide 2 digit by 1 digit, scaling</p> <p><u>Measurement: Money:</u> count money pence and pounds, convert pounds and pence, add and subtract and give change</p> <p><u>Statistics:</u> make tally charts, draw and interpret pictograms, bar charts and tables.</p> <p><u>Measurement: Length and Perimeter:</u> measure length m and cm, compare lengths, add and subtract lengths, measure and calculate perimeter</p> <p><u>Number: Fractions:</u> make = parts, recognise half, quarter, third, unit fractions, non-unit fractions, count in fractions</p> | <p><u>Number: Multiplication and Division:</u> 11 and 12 x table, multiply 3 numbers, factor pairs, written method, multiply and divide 2 digit by 1 digit.</p> <p><u>Measurement: Area:</u> counting squares, making shapes and comparing area</p> <p><u>Number: Fractions:</u> unit and non unit fractions, tenths, equivalent fractions, fractions greater than one, count in fractions and add fractions.</p> <p><u>Number: Decimals:</u> recognise 10ths and 100ths, tenths as decimals, place value grid, on a number line, divide 1 and 2 digit by 10, hundredths as decimals, on a place value grid. Divide 1 or 2 digits by 100.</p> | <p><u>Number: Multiplication and Division:</u> multiply and divide by 2,3,4 digits by 1 digit.</p> <p><u>Number: Fractions:</u> What is a fraction, equivalent fractions, improper fractions, add and subtract fractions.</p> <p><u>Number: Decimals and Percentages:</u> decimals up to 2 decimal points, decimals as fractions, understand thousandths, thousandths as decimals, rounding order and compare decimals, understand percentages. Percentages as fractions and decimals.</p> | <p><u>Number: Decimals</u> decimals up to 2 decimal place, understand thousandths, three decimal places, multiply by 10,100,1000, divide by 10, 100, 1000. Multiply decimals by integers, divide decimals by integers, division to solve problems, decimals as fractions, fractions to decimals</p> <p><u>Number: Percentages</u> Understand percentages, fractions to percentage, equivalent FDP, order FDP, percentage of amounts, missing values</p> <p><u>Number: Algebra</u> Find a rule – one and two step, forming expressions, substitution, formulae, forming equations, solve simple one step and two step equations, find pairs of values, enumerate possibilities</p> <p><u>Measurement: Converting Units</u> metric measures, convert metric measures, calculate with metric measures, miles and km, imperial measures</p> <p><u>Measurement: Perimeter, area and volume:</u> Shapes, area and perimeter, area of a triangle, area of a parallelogram, volume, volume of a cuboid.</p> <p><u>Number: Ratio:</u> ratio language, ratio symbol, scale factors,</p> |
|---------------|--|---|---|---|---|--|---|

|               |  |   |   |   |  |   |  |
|---------------|--|---|---|---|--|---|--|
| <p>Summer</p> | <p><u>Geometry:</u> Exploring patterns – making simple patterns, exploring more complex patterns<br/> <u>Addition and Subtraction:</u> adding by counting on and taking away counting back<br/> <u>Number and Place Value:</u> Numbers to 20 – counting to 20<br/> <u>Multiplication and Division:</u> Numerical patterns – doubling, halving and sharing, odds and evens<br/> <u>Measurement</u> – measure length, height and distance, weight and capacity</p> | <p><u>Number: Multiplication and Division</u> – counting in 2s, 5s, arrays, doubles, equal groups – grouping and sharing<br/> <u>Number: Fractions</u> – finding half and quarter<br/> <u>Geometry: Position and Direction</u><br/> <u>Number: Place Value</u> within 100<br/> <u>Measurement: Money</u> – recognising coins and notes<br/> <u>Measurement: Time</u> – before and after, dates, hour/half hour writing and comparing time</p> | <p><u>Measurement: Length and Height</u> – compare and measure, order lengths. <u>Geometry: Position and Direction.</u> Movements and turns. <u>Measurement: Time</u> – hour, quarter and half past, writing time, comparing durations.</p> | <p><u>Number: Fractions:</u> making whole, tenths, tenths as decimals, fractions of sets of objects, equivalent fractions, compare and order fractions. Add and subtract fractions. <u>Measurement: Time:</u> O clock and half past, quarter past and to. Months and years, hours in a day, telling time to 5 mins, 24 hour clock, durations. <u>Geometry: Properties of Shape:</u> turns and angles, right angles, compare angles, parallel and perpendicular, recognise 2 and 3d shapes. <u>Measurement: Mass and Capacity:</u> compare and measure mass, volume, capacity, temperature</p> | <p><u>Number: Decimals:</u> bonds to 10 and 100, make a whole, write and compare decimals, order decimals, round decimals, halves and quarters<br/> <u>Measurement: Money:</u> pounds and pence, ordering and adding money, subtract and find change, 4 operations<br/> <u>Measurement: Time:</u> telling time to 5 minutes and one minute, am and pm, 24 hr clock, hours, minutes, seconds, years, months, weeks and days. Analogue to digital 12 and 24 hr. <u>Statistics:</u> Interpret charts, comparison, sum and difference, line graphs<br/> <u>Geometry: Properties of Shape:</u> Turns and angles, right angles, recognise and describe 2d shapes, quadrilaterals, lines of symmetry<br/> <u>Geometry: Position and Direction:</u> Describe position, draw on grid, move on grid.</p> | <p><u>Number: Decimals:</u> adding and subtracting decimals with 1, crossing the whole, subtracting decimals with same number of decimal places. Decimal sequences, multiplying decimals by 10,100 and 1000<br/> <u>Geometry: Properties of Shape:</u> identify and compare angles, using a protractor, calculating angles, triangles, quadrilaterals<br/> <u>Geometry: Position and Direction:</u> describe position, draw on a grid, translation, reflection<br/> <u>Measurement: Converting Units:</u> Kilometres, Kilograms, mm and ml metric units, converting units of time, timetables. <u>Measurement Volume:</u> Compare and estimate volume and capacity.</p> | <p><u>Statistics:</u> Read and interpret line graphs, use line graphs to solve problems, circles, read and interpret pie charts, pie charts with percentages, draw pie charts, the mean<br/> <u>Geometry: Properties of Shape:</u> Measure with a protractor, draw lines and angles, angles on a straight line, angles around a point, calculate angles, angles in a triangle, nets of 3d shapes</p> |
|---------------|--|---|---|---|--|---|--|