

Greenhill Academy Maths Long term plan 2023-2024

	P-S/Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Autumn Term	<p>White rose maths scheme</p> <p><u>Autumn 1</u></p> <p>Week 1 – Colour recognition (Primary)</p> <p>Week 2 – Colour. Recognition (Secondary)</p> <p>Week 3 – Matching colours and objects.</p> <p>Week 4 - Matching number, shapes and patterns.</p> <p>Week 5 – Sorting (Colours, shapes and size).</p> <p>Week 6 – Sorting – Reasoning and guessing.</p> <p>Week 7 – Number 1 (Subitising)</p> <p>Week 8 – Number 2 Subtitled dice pattern / different sized.</p> <p>Week 9– Counting, and numerals.</p> <p>Week 10 – Patterns (Extending colours, outdoor patterns and movement.</p>	<p>White rose maths scheme</p> <p>Weeks 1 – 3 Getting to know you</p> <ul style="list-style-type: none"> • Opportunities for settling in, introducing area of provision. • Key times of day/ classroom routines. • Positional language <p>Weeks 4 – 6 Just like me</p> <ul style="list-style-type: none"> • Number – Match and sort/ compare amounts. • Measure, Shape and spatial thinking – Compare Size, Mass and Capacity. • Exploring Pattern. <p>Weeks 7 – 9 It's me 1 2 3!</p> <ul style="list-style-type: none"> • Number - Representing 1, 2 and 3. • Comparing 1, 2 and 3 • Composition of 1, 2 and 3. • Measure, Shape and spatial thinking – Circles and Triangles. • Positional language. 	<p><u>Autumn 1</u></p> <p><u>Weeks 1 – 3</u></p> <p>Number and Place Value to 10</p> <ul style="list-style-type: none"> • sort, count • and represent objects, count forwards and • backwards from any number, one more and • one less, 1:1 correspondence, compare • groups and numbers, order objects and • numbers, ordinal numbers, number line <p>Week 4 – Addition-</p> <ul style="list-style-type: none"> • part-whole model, symbols, • fact families, number bonds, compare • number bonds, adding together/more <p>Week 5</p> <p>Subtraction –</p> <ul style="list-style-type: none"> • Finding a part, taking • away- crossing out, symbols, breaking 	<p><u>Autumn 1</u></p> <p>Week 1 - Number and place value</p> <p>Counting to 100 Representing numbers to 100 Count in 2 5 10 and 3s</p> <p>Week 2 - Number and place value</p> <p>Tens and ones Part part whole Place value addition Place value charts</p> <p>Week 3-Number and place value Compare objects and numbers Ordering numbers</p> <p>Week 4-. Addition Partitioning</p> <p>Week 5-. Addition Partitioning</p> <p>Week 6-. Subtraction Partitioning</p> <p>Week 7-. Subtraction Partitioning</p> <p style="text-align: center;"><u>Autumn 2</u></p> <p>Week 1_ Number Multiplication</p> <p>Week 2-. Number Division</p>	<p><u>Autumn 1</u></p> <p>Week 1 – 3 - Number and place value – 3 Hundreds, represent numbers to 1000, 100s 10s 1s Number line to 1000, find 1, 10, 100 more or less than, compare objects to 1000, order numbers, count in 50s Addition – column and bridging- 2 (1) -Add multiples of 100, add 3 digit and 1 digit numbers not crossing 10 then crossing 10, add 3 digit and 2 digit not crossing 100 then crossing 100 (2)</p> <p>Week 4 and 5 - Addition - Add 100s, spot the pattern, add 2 and 3 digit numbers not crossing 10 or 100, then crossing 10 or 100, Subtraction – column and exchanging – 2 (1)</p>	<p><u>Autumn 1</u></p> <p>Week 1 - Number Place Value – working up to 4 digit numbers</p> <p>Week 2 - Place Value – 1000 more and less, number problems to include money</p> <p>Week 3 - Addition – formal written methods up to 4 digits</p> <p>Week 4-Subtraction – formal written method up to 4 digits</p> <p>Week 5 - Multiplication – grid method, up to 3 digit by 1 digit.</p> <p>Week 6 - Division – bus stop, up to 3 digit by 1 digit.</p> <p>Week 7 - Measure Time - read timer and convert between 24hour, digital and analogue</p> <p style="text-align: center;"><u>Autumn 2</u></p>	<p><u>Autumn 1</u></p> <p>Week 1 -Number Place Value - Identify the place value in numbers up to 7 digits</p> <p>Week 2 - formal written methods of column addition</p> <p>Week 3 -Formal written methods of column subtraction</p> <p>Week 4 - Practice and extend their use of the formal written methods of short multiplication.</p> <p>Week 5 - Practice and extend their use of the formal written methods of short multiplication.</p> <p>Week 6 - Mentally add and subtract tenths, and one-digit whole numbers and tenths.</p> <p>Week 7 - Geometry Drawing lines with a ruler to the nearest mm</p> <ul style="list-style-type: none"> • Properties of common 2d 	<p><u>Autumn 1</u></p> <p>Week 1 - Number – Formal methods – Addition and Subtraction Rising Stars</p> <p>Week2 - Number – Formal methods (Multiplication and Division)</p> <p>Week 3 - Number – Number and Place Value (Fractions)</p> <p>Week 4 - Number – Number and Place Value – Percentages</p> <p>Week 5 - Number – Algebra</p> <p>Week 6 - Number – Fractions (including decimals and percentages)</p> <p>Week 7 - Number – Fractions (including decimals and percentages)</p> <p style="text-align: center;"><u>Autumn 2</u></p>

	<p>Week 11 – Fix my pattern/ Extend ABC/ Extend ABC outdoor patterns.</p> <p>Week 12 – Consolidation and winter activity week.</p>	<p>Weeks 10 – 12 – Light and Dark</p> <ul style="list-style-type: none"> • Number – Representing Numbers to 5. • One more and one less • Measure, Shape and spatial thinking – Shapes with 4 sides. • Time 	<ul style="list-style-type: none"> • apart, fact families, counting back <p>Week 6/7 – Place value consolidation.</p> <p>Autumn 2</p> <p>Week. 1 – Addition and Subtraction</p> <p>Week 2 - Measure- Length and Height (1)- compare lengths and heights, measure.</p> <p>Week 3 - Addition and subtraction.</p> <p>Week 4 - Measure- Time Before and after, dates, time to the hour</p> <p>Week 5 - Shape recognise and name 2D, sort 2D. recognise</p> <p>Week 6 – name, make and 3D, sort , patterns.</p> <p>Week 7 - Number-Place Value to 20 Count forwards and backwards in numerals and words, TO, one more and one less, compare groups and numbers, order groups and numbers</p>	<p>Week 3- Measurement - Money Recognising coins, notes etc. Counting amounts Adding/Subtracting amounts Change</p> <p>Week 4- Measurement - Money Recognising coins, notes etc. Counting amounts Adding/Subtracting amounts Change</p> <p>Week 5-. Geometry Properties of 3D shape</p> <p>Week 6-. Geometry Properties of 2D shape</p> <p>Week 7 - Data Handling Statistics</p>	<p>Weeks 6 and 7- Subtraction Subtract multiples of 100, subtract 3 digit and 1 digit numbers not crossing 10, then crossing 10, subtract 3 digit and 2 digit not crossing 100 then crossing 100 (2) Subtract a 2 digit number from 3 digit, subtract 100s, spot the pattern, subtract 2 and 3 digit numbers crossing 10 or 100, subtract 3 digit from 3 digit no exchange,</p> <p>Autumn 2</p> <p>Week 1 and. 2- Multiplication – 2 sets, number lines, bar models, calc policy</p> <p>Week 3 and 4 - Division – 2 sets, number lines, bar models, calc policy (1&2)Equal groups, multiply by 3, by 4, by 8. and their times tables facts. Divide by alongside multiplication to see connection. (3&4) Comparing statements, related statements, multiply 2 digit by 1 digit, divide 2 digits by</p>	<p>Week 1 - Number • Fractions – equivalent fractions, fractions of shapes, $\frac{1}{2}$ and $\frac{1}{4}$</p> <p>Week 2 - Fractions – equivalent fractions, simplifying, unit fractions</p> <p>Week 3 and 4 - Measure Money – amounts, adding, subtracting, word problems</p> <p>Week 5 - Geometry Shape -2D shapes up to 10 sides. Names – acute, right, obtuse and reflex angles</p> <p>Week 6 - Shape – symmetry, shapes and patterns</p>	<p>shapes</p> <ul style="list-style-type: none"> • Properties of regular polygons. <p>Autumn 2</p> <p>Week 1 - Measure</p> <ul style="list-style-type: none"> • Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres <p>Week 2 and 3 - Number</p> <ul style="list-style-type: none"> • Adding and subtracting fractions Statistics <p>Week 4 - Complete, read and interpret information in tables, including timetables Measure</p> <p>Week 5 - Read the time</p> <p>Week 6 - Convert between different units</p>	<p>Week 1 -Number – formal methods – - Multiplication and Division</p> <p>Week 2 - Geometry – 3D and 2D</p> <p>Week 3 - Measurement – Angles</p> <p>Week 4- Measurement – Angles</p> <p>Week 5 - - Geometry – Circles</p> <p>Week 6 - Measurement – Conversions Rising Stars</p>
--	--	---	--	---	---	--	---	--

					<p>1 digit, scaling, how many ways – reasoning.</p> <p>Week 5 and 6 - Money – 2 pounds and pence, converting, add, subtract, change. Include adding, subtracting, multiplying and dividing amounts. Coins equalling the same amount</p> <p>Week 7 - Statistics - 1 Pictograms, bar charts, tables</p>			
Spring Term	<p><u>White rose maths scheme</u></p> <p>Week 1 – Number 3 (Subitising)</p> <p>Week 2 – Number 3 – 3 little pigs, 1:1 counting, Numerals/ triangles.</p> <p>Week 3 – Number 4 – 1:1 counting, numerals, Squares/ rectangles.</p> <p>Week 4 -Number 4 – Composition of 4.</p> <p>Week 5 – Number 5 – 1:1 counting, Numerals, Pentagon.</p> <p>Week 6 – Number 5 – Composition of 5</p> <p>Week 7 – Consolidate Number 5.</p>	<p><u>White rose maths scheme</u></p> <p>Weeks 1 – 3 – Alive in 5!</p> <ul style="list-style-type: none"> • Number - Introducing zero • Comparing numbers to 5 • Composition of 4 & 5 • Measure, Shape and spatial thinking - Compare Mass (2) • Compare Capacity (2) <p>Weeks 4 – 6 Growing 6,7, 8</p> <ul style="list-style-type: none"> • Number – 6,7&8 • Combining 2 amounts • Making pairs • Measure, Shape and spatial thinking - Length & Height • Time 	<p><u>Spring 1</u></p> <p>Week 1 - 2. - Number- Addition and Subtraction to 20 (2)- add by counting on, find and make number bonds, add by making 10, subtraction not crossing 10, crossing 10, related facts, compare number sentences</p> <p>Week 3- Measurement- Weight (1)- introduce weight and mass, measure and compare mass</p> <p>Week 4 - Number- Place Value (1) (PV to 50)- numbers to 50, TO, represent numbers, 1 more 1 less, compare objects and numbers, order numbers,</p> <p>Week 5 and 6 - Multiplication (2) - count in</p>	<p><u>Spring 1</u></p> <p>Week 1- Number Addition</p> <p>Week 2- Number Subtraction</p> <p>Week 3- Number Multiplication</p> <p>Week 4 -Number Division</p> <p>Week 5- Measurement Fractions</p> <p>Week 6 - Measurement Time</p> <p><u>Spring 2</u></p> <p>Week 1- Measurement x2 Length and Height Capacity and Temperature Weight and Mass</p>	<p><u>Spring 1</u></p> <p>Weeks 1 and - 2 - Measurement – length and perimeter – 2. Read scales in divisions of ones twos fives and tens. Measure length, equivalent lengths m and cm, mm and cm, compare lengths, add lengths, subtract lengths, perimeter – measure and calculate.</p> <p>Weeks 3 and 4 - Fractions – 2 Unit and non-unit fractions, making the whole, tenths, count in tenths, tenths as decimals, fractions on a number line, fractions of sets of objects.</p>	<p><u>Spring 1</u></p> <p>Week 1 - Place Value – multiplying and dividing by 10 and 100, including tenths and hundredths.</p> <p>Week 2 - Addition – money</p> <p>Week 3 - Subtraction – money Statistics</p> <p>Week 4 - Statistics – tally charts, pictograms, bar chart</p> <p>Week 5- Number Decimals – rounding and Ordering</p> <p>Week 6 - Decimals – adding and Subtracting</p> <p><u>Spring 2</u></p>	<p><u>Spring 1</u></p> <p>Week 1 - Number Formal written methods for column addition and subtraction</p> <p>Week 2 - Formal methods of Multiplication</p> <p>Week 3 - Formal methods of division</p> <p>Week 4 - Negative numbers</p> <p>Week 5 - Mixed number and improper fractions</p> <p><u>Spring 2</u></p> <p>Week 1 - Number Fractions, decimals and percentages.</p>	<p><u>Spring 1</u></p> <p>Week 1 - Number – Multiplication and Division</p> <p>Week 2 - Number – Number and Place Value</p> <p>Week 3 - Geometry – Translation, Rotation, Reflection Ratio and Proportion</p> <p>Week 4 – Algebra</p> <p>Week 5 Statistics</p> <p><u>Spring 2</u></p> <p>Week 1 - Number – Addition, Subtraction, Multiplication and Division</p>

	<p>Week 8 – Number 6 – Introduce 10 frame.</p> <p>Week 9 – Height and length (Tall and short, Long and short)</p> <p>Week 10 – Mass (Relate to books – 3 little pigs and Goldilocks)</p> <p>Week 11 – Capacity</p> <p>Week 12 - Consolidation</p>	<p>Weeks 7 – 9 Building 9 & 10</p> <ul style="list-style-type: none"> • Number - Counting to 9 & 10 • Comparing numbers to 10 • Bonds to 10 • Measure, Shape and spatial thinking – 3D-shapes • Patterns 	<p>2s, 5s, 10s Number- Place value</p> <p>Spring 2</p> <p>Week 1 and 2 -Number - Division (2)- grouping, sharing</p> <p>Week 3 -Mix Multiplication and division consolidation (1)</p> <p>Week 4 - Fractions- halves and quarters (1)</p> <p>Week 5 - Money (1)- recognising coins and notes, counting in coins</p> <p>Week 6 -Consolidation week</p>	<p>Week 2- Measurement Time</p> <p>Week 3- Geometry Position and Direction</p> <p>Week 4- Number Addition and Subtraction</p> <p>Week 5 - Number Multiplication, division and fractions</p>	<p>Recognising and find and name fractions and fractions of a length, shape, set of objects or quantity. Know all parts must be equal parts of the whole.</p> <p>Week 5 - Time - 1 months and years, hours in a day, time to 5 minutes time to the minute, am and pm, 24 hour clock, finding duration, comparing duration, start and end times, time in seconds Retell the time to nearest 15 mins More 2 step word problems</p> <p>Spring 2</p> <p>Week 1 - Time - 1 months and years, hours in a day, time to 5 minutes time to the minute, am and pm, 24 hour clock, finding duration, comparing duration, start and end times, time in seconds</p> <p>Weeks 2 and 3 - Shape – angles and turns – 2 Turns and angles, right angles, compare angles, draw, horizontal and vertical, parallel and perpendicular,</p>	<p>Week 1 - Measure Area and perimeter</p> <p>Week 2 - Geometry Shape - acute, right, obtuse and reflex angles</p> <p>Week 3 - Number Multiplication – grid method, moving to short method, multiplying 3 numbers</p> <p>Week 4 - Division – bus stop, with remainders, moving to decimal answers Statistics</p> <p>Week 5 - Statistics – pictogram, bar chart, time line graph</p>	<p>Week 2 - Geometry Properties of 3D shapes</p> <p>Week 3 - Parallel and Perpendicular lines</p> <ul style="list-style-type: none"> • Identify different types of angles. <p>Week 4 - Number</p> <ul style="list-style-type: none"> • Ratio and Proportion <p>Week 5 - Fractions, decimals and percentages. Measure</p> <ul style="list-style-type: none"> • Reading timetables. 	<p>Week 2- Measurement – Area and Perimeter</p> <p>Week 3- Geometry Measurement</p> <p>Week 4– Geometry</p> <p>Week 5 - -Volume Roman numerals (Year 5 revision and consolidation.)</p> <p>Week 6 Place Value (Consolidation)</p>
--	--	---	--	---	---	--	---	--

					<p>Lines of symmetry</p> <p>Week 4 - Addition – 1 add 2 3 digit numbers not crossing 10 or 100, then crossing 10 or 100</p> <p>Week 5 - Subtraction – 1 subtract 3 digit from 3 digit no exchange recap, then exchange, INVERSE NEED TO D MISSING NUMBER PROBLEMS More 2 step word problem</p>			
Summer Term	<p><u>White rose maths scheme</u></p> <p>Week 1 – More than/ fewer than</p> <p>Week 2 – One more</p> <p>Week 3 – One less</p> <p>Week 4 – Shape (2D) Revisit pattern from Autumn</p> <p>Week 5 – Shape (3D) Revisit pattern from Autumn.</p> <p>Week 6- Consolidation (Fewer than/ one more / one less.</p> <p>Week 7 – Number composition 1 – 5 revision</p> <p>Week 8 – Night and Day – Order events in their day at nursery/</p>	<p><u>White rose maths scheme</u></p> <p>Weeks 1 – 3 To 20 and beyond</p> <ul style="list-style-type: none"> Number – Building Numbers Beyond 10 Counting Patterns Beyond 10 Measure, Shape and spatial thinking – Spacial reasoning March, rotate, Manipulate <p>Weeks 4 – 6 First, Then, Now</p> <ul style="list-style-type: none"> Number – Adding More Taking Away Measure, Shape and spatial thinking – Spacial reasoning Compose and decompose 	<p><u>Summer 1</u></p> <p>Week 1 and 2- Place Value within 100 (2)- counting to 100, partitioning, comparing numbers, ordering, one more, one less</p> <p>Week 3 -Money (1) recognising coins and notes, counting in coins (revision)</p> <p>Weeks 4 and 5 -Addition and Subtraction (partitioning methods – no bridging or exchanging) (2)</p> <p>Week 6 - Time (1) Half past, writing time, comparing time</p> <p><u>Summer 2</u></p> <p>Week 1 - Addition and Subtraction – revision (1)</p> <p>Week 2 - Measurement- Volume and</p>	<p><u>Summer 1</u></p> <p>Week 1- Number Place Value</p> <p>Week 2- Number Addition</p> <p>Week 3 - Number Subtraction</p> <p>Week 4 - Number Multiplication</p> <p>Week 5 - Number Division</p> <p>Week 6- Number Applying number knowledge to games In starters - recap - Time - Shape - Money – Symmetry</p> <p><u>Summer 2</u></p> <p>Week 1- Measurement Capacity and Temperature</p>	<p><u>Summer 1</u></p> <p>Week 1 - Multiplication – 1</p> <p>Week 2 - Division – 1 INVERSE NEED TO D MISSING NUMBER PROBLEMS</p> <p>Weeks 3 and 4 - Fractions – 2. From pg 77 WRH Spring Term – Fractions of Amounts Equivalent fractions, compare fractions, order fractions, add fractions, subtract fractions, - NEED TO D MISSING NUMBER PROBLEMS</p> <p>Weeks 5 and 6 - Shape – 2D and 3D shapes (inc recap of Spring 2) –2 2D 3D shapes – 2 Recognise and describe 2D and</p>	<p><u>Summer 1</u></p> <p>Week 1 - Geometry Co-ordinates – identifying and plotting co-ordinates, direction</p> <p>Week 2 and 3- Number Addition and subtraction – range of contexts, decimals, measure, money</p> <p>Week 4 - Multiplication and division – distributive law, factor pairs, short method</p> <p>Week 5 - Multiplication and division – grid method up to 3 digit by 2 digit, bus stop</p>	<p><u>Summer 1</u></p> <p>Week 1 - Number</p> <ul style="list-style-type: none"> Place value <p>Week 2 - Written methods Multiplication</p> <p>Week 3 - Written methods Division</p> <p>Week. 4- Measure Length</p> <p>Week 5 - Mass</p> <p><u>Summer 2</u></p> <p>Week 1 - Measure</p> <ul style="list-style-type: none"> Capacity <p>Week 2 - Number</p> <ul style="list-style-type: none"> Roman Numerals <p>Week 3 -</p> <ul style="list-style-type: none"> Converting Fractions 	<p><u>Summer 1</u></p> <p>Week1 - Roman numerals (Year 5 revision and consolidation.</p> <p>Week 2 - Rising Stars</p> <p>Week 3 - Place Value (Consolidation)</p> <p>Week 4 – Algebra</p> <p>Week 5 - Number - Fractions ,decimals and percentages</p> <p><u>Summer 2</u></p> <p>Week 1 - Number - multiplication and division</p> <p>Week 2 - Geometry - position and direction</p> <p>Week 3- Number - multiplication and division</p>

	<p>What happens day/night.</p> <p>Week 9 – Positional language</p> <p>Week 10 – Positional language</p> <p>Week 11 – Consolidation Activity</p> <p>Week 12 – Consolidation Activity.</p>	<p>Weeks 7 – 9 Find my pattern</p> <ul style="list-style-type: none"> • Number - Doubling • Sharing & Grouping • Even & Odd • Measure, Shape and spatial thinking – Spatial Reasoning (3) • Visualise and Build <p>Weeks 10 – 12 – On the move</p> <ul style="list-style-type: none"> • Number – Deepening • Understanding Patterns and Relationships • Measure, Shape and spatial thinking - Spatial Reasoning (4) • Mapping 	<p>Capacity (1)- Introduce capacity and volume, measure and compare capacity</p> <p>Week 3 - Multiplication and Division revision (1)</p> <p>Week 4 - Position and Direction (1)- describe turns, describe position</p> <p>Week 5 - Statistics (1) Revision on any gaps in learning .</p> <p>Week 6 - Consolidation</p>	<p>Week 2- Measurement - Money Adding/Subtracting amounts Change</p> <p>Week 3- Measurement - Money Adding/Subtracting amounts Change</p> <p>Week 4- Measurement - Time O'clock and Half Past Quarter to and Quarter Past</p> <p>Week 5- Measurement - Time 5 minute intervals Sequencing events Sequencing times in a full day</p> <p>Week 6- Investigations Applying number knowledge to game</p>	<p>3D shapes, make 3D shapes Properties of shapes</p> <p>Summer 2</p> <p>Weeks 1 and 2 - Mass and capacity – 2 Measure mass, compare mass, add and subtract mass, measure capacity, compare capacity, add and subtract capacity Scales in 1s, 2s, 5s, 10s.</p> <p>Week 3 - Time – 1 Starting with duration in WRH Week 4-6 Summer Time. Possibly from pg 11. Children would like more help with writing digital time and 5 minute intervals.</p> <p>Week 4 Money – 1</p> <p>Weeks 5 and 6 – Calculations Place value</p>	<p>with decimal remainders, correspondence problems</p> <p>Week 6 - Fractions – equivalents, fractions of amounts, converting fractions to decimals</p> <p>Summer 2</p> <p>Week 1 - Measure Capacity – estimating, measuring, ml to l</p> <p>Week 2 - Mass - estimating, measuring, g to kg</p> <p>Week 3 -Number Fractions – adding and subtracting fractions</p> <p>Week 4 - Measure Time - read timer and convert between 24hour, digital and analogue, word problems</p> <p>Week 5 - Geometry Shape – angles and symmetry</p> <p>Week 6 - Position and direction - plotting co-ordinates, direction. Translating shapes</p>	<p>Week 4 - Fractions, decimals and percentages</p> <p>Week 5 - Round decimals</p> <p>Week 6 - Geometry</p> <ul style="list-style-type: none"> • Reflection • Rotation • Translation • Coordinates 	<p>Week 4 - Measurement</p> <p>Week 5 Measurement</p>
--	--	---	---	--	---	---	---	---