



Arithmetic Sessions

Long Term Plan



This document has been created to supplement arithmetic fluency alongside our White Rose Maths scheme.

Key Stage 1: 1 Arithmetic session per week (20 mins)

Session 1= Teach and Practice the objective

Key Stage 2: 1 Arithmetic session per week (20 mins)

Session 1= Teach and Practice the objective

Children in Year 1 to record work on whiteboards

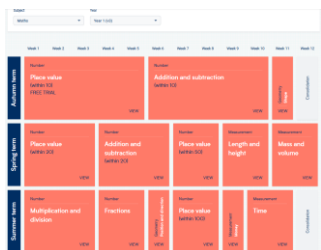
Children in Years 2 – 6 to record work in yellow books

See the example of these sessions in the One Drive

Rationale

Teachers have reported that children's reasoning is strong but fluency across the school is not as accurate or fast as we would like it to be. Alongside this, we aim to achieve better results in the Year 4 Times Table Check. Below is the organisation of arithmetic sessions for each year group, these are largely based around mastering the four operations (key stage 2 including some fractions work). Objectives have been largely taken to match WRH maths lessons already taught.

Year 1



Autumn Term

White Rose Maths Unit	Academic Week and Objective
Place Value (Within 10)	Week 1- To sort objects
	Week 2- To count objects
	Week 3- To count on from any number
	Week 4- To count one more
	Week 5- To count backwards within 10
Addition and Subtraction (Within 10)	Week 6- To count one less
	Week 7- To explain less than, greater than and equal to
	Week 8- To understand part-whole models
	Week 9- To understand fact families and addition facts
	Week 10- To learn number bonds to 10
Geometry - Shape	Week 11- To learn number bonds to 10
Consolidation	Week 12- To add two single digit numbers together

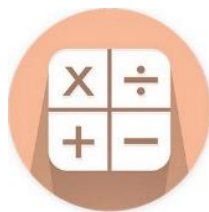
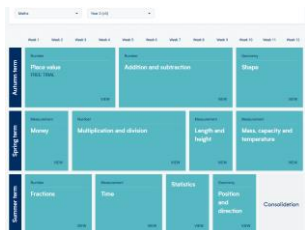
Spring Term

White Rose Maths Unit	Academic Week and Objective
Place Value (Within 20)	Week 1- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS
	Week 2- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS
	Week 3- To add two single digit numbers together
Addition and Subtraction (Within 20)	Week 4- To subtract from a single digit number
	Week 5- To subtract from a single digit number
	Week 6- To subtract from a two digit number (11-20)
Place Value (Within 50)	Week 7- To add three single digit numbers to 20
	Week 8- To use doubles
Length and Height	Week 9- To use near doubles
	Week 10- To complete missing number problems (+ and – to 20)
Mass and Volume	Week 11- To estimate on a number line to 50
	Week 12- To count in 2s

Summer Term

White Rose Maths Unit	Academic Week and Objective
Multiplication and Division	Week 1- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS
	Week 2- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS
	Week 3- To learn number bonds to 10
Fractions	Week 4- To count in 10s
	Week 5- To count in 5s
Geometry- Position and Direction	Week 6- To add two single digit numbers (within 50)
Place Value (Within 100)	Week 7- To subtract two single digit numbers (Within 50)
	Week 8- To use doubles
Measurement- Money	Week 9- To make equal groups (grouping)
Measurement- Time	Week 10- To make equal groups (sharing)
	Week 11- To count, read and write numbers to 100
Consolidation	Week 12- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS

Year 2



Autumn Term

White Rose Maths Unit	Academic Week and Objective
Place Value	Week 1- To add single digit numbers
	Week 2- To add a single digit numbers to a two digit number
	Week 3- To subtract a single digit number from a single digit number
	Week 4- To subtract a single digit number from a two digit number
Addition and Subtraction	Week 5- To order numbers up to 100
	Week 6- To revise number bonds to 10
	Week 7- To create number bonds to 100 (using tens)
	Week 8- To add 1s to a number
	Week 9- To subtract 1s from a number
Geometry - Shape	Week 10- To add three 1 digit numbers
	Week 11- To calculate 10 more and 10 less
	Week 12- To add two 2 digit numbers (not across a 10)

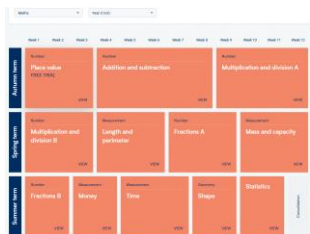
Spring Term

White Rose Maths Unit	Academic Week and Objective
Money	Week 1- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS
	Week 2- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS
Multiplication and Division	Week 3- To add two 2 digit numbers (across a 10)
	Week 4- To subtract two 2 digit numbers (not across a 10)
	Week 5- To subtract two 2 digit numbers (across a 10)
	Week 6- To complete mixed addition and subtraction calculations
	Week 7- To complete missing number addition calculations
Length and Height	Week 8- To complete missing number subtraction calculations
	Week 9- To revise the 2x table
Mass, Capacity and Temperature	Week 10- To revise the 5x table
	Week 11- To revise the 10x table
	Week 12- To double numbers

Summer Term

White Rose Maths Unit	Academic Week and Objective
Fractions	Week 1- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS
	Week 2- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS
	Week 3- To halve numbers
Time	Week 4- To multiply by adding equal groups (1)
	Week 5- To multiply by adding equal groups (1)
	Week 6- To make equal groups (grouping)
Statistics	Week 7- To make equal groups (sharing)
	Week 8- To divide by 2
Position and Direction	Week 9- To divide by 10
	Week 10- To divide by 5
Consolidation	Week 11- To find a quarter of a given number (fractions)
	Week 12- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS

Year 3



Autumn Term

White Rose Maths Unit	Academic Week and Objective
Place Value	Week 1- To add two numbers (within 100)
	Week 2- To subtract two numbers (within 100)
	Week 3- To represent numbers to 1,000 using place value counters
Addition and Subtraction	Week 4- To compare numbers to 1,000
	Week 5- To count in 50s
	Week 6- To add 1s to a three-digit number
	Week 7- To add 10s to a three-digit number
Multiplication and Division A	Week 8- To add 100s to a three-digit number
	Week 9- To subtract 1s from a three-digit number
	Week 10- To subtract 10s from a three-digit number
	Week 11- To add two two-digit numbers
	Week 12- To add two three-digit numbers

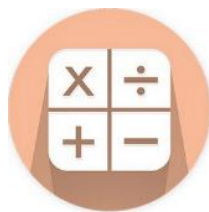
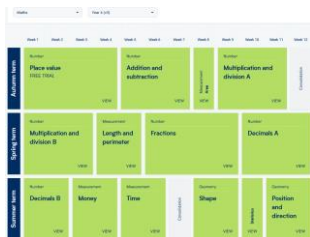
Spring Term

White Rose Maths Unit	Academic Week and Objective
Multiplication and Division B	Week 1- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS
	Week 2- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS
	Week 3- To add two and three-digit numbers together
Length and Perimeter	Week 4- To subtract two two-digit numbers
	Week 5- To subtract two three-digit numbers
	Week 6- To subtract a two-digit number from a three-digit number
Fractions A	Week 7- To complete missing number addition problems
	Week 8- To complete missing number subtraction problems
	Week 9- To multiply a 2-digit number by a 1-digit number (no exchange)
Mass and Capacity	Week 10- To multiply a 2-digit number by a 1-digit number (with exchange)
	Week 11- To divide a 2-digit number by a 1-digit number (no exchange)
	Week 12- To divide a 2-digit number by a 1-digit number (with remainders)

Summer Term

White Rose Maths Unit	Academic Week and Objective
Fractions B	Week 1- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS
	Week 2- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS
Money	Week 3- To multiply a 2-digit number by a 1-digit number (mixed)
	Week 4- To divide a 2-digit number by a 1-digit number (mixed)
Time	Week 5- To calculate missing number multiplication calculations
	Week 6- To calculate missing number division calculations
	Week 7- To add and subtract two and three-digit numbers
Shape	Week 8- To add fractions
	Week 9- To subtract fractions
Statistics	Week 10- To add, subtract, multiply and divide a range of numbers (1)
	Week 11- To add, subtract, multiply and divide a range of numbers (2)
Consolidation	Week 12- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS

Year 4



Autumn Term

White Rose Maths Unit	Academic Week and Objective
Place Value	Week 1- To revisit number bonds to 10 and 100
	Week 2- To add a single digit number to a 2-digit number
	Week 3- To add a 2-digit number to a 2-digit number
	Week 4- To subtract a single digit number from a 2-digit number
Addition and Subtraction	Week 5- To subtract a two-digit number from a 2-digit number
	Week 6- To order numbers to 10,000
	Week 7- To revise Roman Numerals to 100
Measurement- Area	Week 8- To round to the nearest 10
Multiplication and Division A	Week 9- To round to the nearest 100
	Week 10- To round to the nearest 1,000
	Week 11- To add 1, 10, 100 and 1,000 to a number
Consolidation	Week 12- To subtract 1, 10, 100 and 1,000 from a number

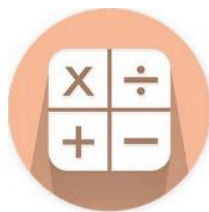
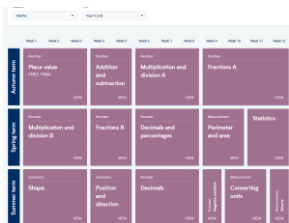
Spring Term

White Rose Maths Unit	Academic Week and Objective
Multiplication and Division B	Week 1- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS
	Week 2- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS
	Week 3- To add two 4-digit numbers together
Length and Perimeter	Week 4- To add three 1-4-digit numbers together
	Week 5- To subtract two 4-digit numbers from each other
Fractions A	Week 6- To complete missing number addition problems
	Week 7- To complete missing number subtraction problems
	Week 8- To complete factor pairs for 2-digit numbers
Decimals A	Week 9- To multiply by 10
	Week 10- To multiply by 100
	Week 11- To divide by 10
	Week 12- To divide by 100

Summer Term

White Rose Maths Unit	Academic Week and Objective
Decimals B	Week 1- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS
	Week 2- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS
Money	Week 3- To multiply a 2-digit number by a 1-digit number
	Week 4- To multiply a 3-digit number by a 1-digit number
Time	Week 5- To divide a 2-digit number by a 1-digit number
	Week 6- To divide a 3-digit number by a 1-digit number
Consolidation	Week 7- To add fractions
Shape	Week 8- To subtract fractions
	Week 9- To find fractions of a number
Statistics	Week 10- To add, subtract, multiply and divide a range of numbers (1)
Position and Direction	Week 11- To add, subtract, multiply and divide a range of numbers (2)
	Week 12- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS

Year 5



Autumn Term

White Rose Maths Unit	Academic Week and Objective
Place Value	Week 1- To revise number bonds to 10, 100 and 1,000
	Week 2- To revise Roman Numerals to 1,000
	Week 3- To multiply and divide by 10
Addition and Subtraction	Week 4- To order numbers to 1,000,000
	Week 5- To round to the nearest 10
Multiplication and Division A	Week 6- To round to the nearest 100
	Week 7- To round to the nearest 1,000
	Week 8- To add whole numbers with more than 4 digits
Fractions A	Week 9- To subtract whole numbers with more than 4 digits
	Week 10- To add and subtract a range of numbers
	Week 11- To use rounding to check answers
	Week 12- To revise prime numbers and factors

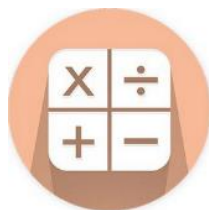
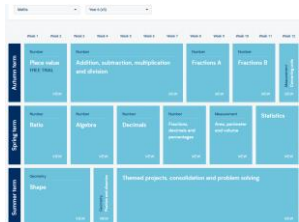
Spring Term

White Rose Maths Unit	Academic Week and Objective
Multiplication and Division B	Week 1- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS
	Week 2- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS
	Week 3- To revise square and cubed numbers
Fractions B	Week 4- To multiply by 10, 100 and 1,000
	Week 5- To divide by 10, 100 and 1,000
Decimals and Percentages	Week 6- To multiply up to a 4-digit number by a 1-digit number
	Week 7- To multiply a 2-digit number by a 2-digit number
	Week 8- To multiply a 3-digit number by a 2-digit number
Perimeter and Area	Week 9- To multiply a 4-digit number by a 2-digit number
	Week 10- To divide a 3-digit number by a 1-digit number
Statistics	Week 11- To divide a 4-digit number by a 1-digit number
	Week 12- To multiply a unit fraction by an integer

Summer Term

White Rose Maths Unit	Academic Week and Objective
Shape	Week 1- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS
	Week 2- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS
	Week 3- To multiply a non-unit fraction by an integer
Position and Direction	Week 4- To multiply a mixed number by an integer
	Week 5- To calculate a fraction of an amount
Decimals	Week 6- To round decimals to the nearest whole number
	Week 7- To round decimals to one decimal place
	Week 8- To order decimals with up to three decimal places
Negative Numbers	Week 9- To calculate equivalent decimals, fractions and percentages
Measurement- Converting Units	Week 10- To add, subtract, multiply and divide a range of numbers (1)
	Week 11- To add, subtract, multiply and divide a range of numbers (2)
Measurement- Volume	Week 12- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS

Year 6



Autumn Term

White Rose Maths Unit	Academic Week and Objective
Place Value	Week 1- To order numbers up to 1,000,000
	Week 2- To multiply a range of numbers by 10, 100 and 1,000
Addition, Subtraction, Multiplication and Division	Week 3- To divide a range of numbers by 10, 100 and 1,000
	Week 4- To add and subtract involving negative numbers
	Week 5- To add integers
	Week 6- To subtract integers
	Week 7- To revise common factors
Fractions A	Week 8- To revise common multiples
	Week 9- To revise prime numbers to 100
Fractions B	Week 10- To revise cube and square numbers
	Week 11- To multiply up to a 4-digit number by a 1-digit number
Measurement- Converting Units	Week 12- To multiply up to a 4-digit number by a 2-digit number

Spring Term

White Rose Maths Unit	Academic Week and Objective
Ratio	Week 1- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS
	Week 2- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS
Algebra	Week 3- To round numbers to the nearest 10, 100 and 1,000
	Week 4- To divide up to 4 digits by a 1-digit number
Decimals	Week 5- To divide up to 4 digits by a 2-digit number
	Week 6- To use common multiples to simplify fractions
Fractions, Decimals and Percentages	Week 7- To divide proper fractions by whole numbers
	Week 8- To add fractions with different denominators and mixed numbers
Area, Perimeter and Volume	Week 9- To subtract fractions with different denominators and mixed numbers
	Week 10- To multiply simple pairs of proper fractions
Statistics	Week 11- To multiply 1-digit numbers (up to 2 d.p) by whole numbers
	Week 12- To calculate a fraction of an amount

Summer Term

White Rose Maths Unit	Academic Week and Objective
Shape	Week 1- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS
	Week 2- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS
	Week 3- To round numbers to the nearest whole
Position and Direction	Week 4- To add, subtract, multiply and divide a range of numbers (1)
Themed Projects, Consolidation and Problem Solving	Week 5- To add, subtract, multiply and divide a range of numbers (2)
	Week 6- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS
	Week 7- AFL BASED ON GAPS ANALYSIS FROM ASSESSMENTS
	Week 8- Ratio/Algebra/Arithmetic to support any maths projects
	Week 9- Ratio/Algebra/Arithmetic to support any maths projects
	Week 10- Ratio/Algebra/Arithmetic to support any maths projects
	Week 11- Ratio/Algebra/Arithmetic to support any maths projects
	Week 12- Ratio/Algebra/Arithmetic to support any maths projects