Year 6 Long Term Plan 2022 -2023



	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number Addition, Subtraction, Place value Multiplication and Division				Number Fractions	A	Number Fractions B		Measurement Converting Units			
Spring	Ratio Algebra		Number Decim	Number Decimals Percentages Number Measurement Area, Perir Volume		imeter and	Statistics					
Summer	Geometry Shape Geometry Direction And Direction Direction			ng								

Our maths scheme for Year 1 - 6 follows our own carefully curated progression. Learning is built upon progressively and appropriately for the children's level of experience and readiness to progress. Although a guide for content duration is made, teachers regularly use their own professional judgement to extend, shorten and adapt learning within a unit. Due to this, flexibility is accepted for our maths teaching. Teachers can use additional time throughout the year to revise and recap key learning such as number and place value as well as an emphasis on the use of four operations to ensure these skills are regularly used discreetly as well as within contexts.

Our overviews follow the objectives outlined in the White Rose units and are enhanced through the careful consideration of NCETM resources to ensure our children have opportunity to gain a deeper understanding of the learning taking place. Where NCETM links are not available, teachers are able to use professional judgement on any linked NCETM spines as well as enhancing White Rose learning with additional resources. Children are exposed to learning through collaborative learning lessons, practical lessons, and independent learning.

Sentence stems are used in all units to embed language and vocabulary as well as the tools for children to express their knowledge in problem solving and reasoning. Out of year group White Rose links ensure teachers are clear with previous learning as well as future learning.

AUTUMN					
Number: Place Value					
NEW VO	CABULARY				
numbers to ten million					
White Rose Objective NCETM link					
Numbers to 1,000,000	1.30 – Teaching point 2				
Numbers to 10,000,000	1.30 – Teaching point 2				
Read and write numbers to 10,000,000	1.30 – Teaching point 2				
Powers of 10					
Number line to 10,000,000					
Compare and order any integers	1.30 – Teaching point 2				
Round any integer	1.30 – Teaching point 2				
Negative numbers					

AUTUMN					
Addition, Subtraction, Multiplication and Division					
NEW VOCABULARY					
order of operations, BIDMAS; common multiple, lowest common multiple					
White Rose Objective	NCETM link				
Add and subtract integers	1.30 – Teaching point 4				
Common factors					
Common multiples					
Rules of divisibility					
Primes to 100					
Square and cube numbers					
Multiply up to a 4-digit number by a 2-digit number	2.23 – Teaching point 4				
Solve problems with multiplication					
Short division	2.24 – Teaching point 1				
Division using factors	2.24 – Teaching point 1				
Introduction to long division	2.24 – Teaching point 2				
	2.24 – Teaching point 3				
Long division with remainders	2.24 – Teaching point 2				
	2.24 – Teaching point 3				
Solve problems with division					
Solve multi-step problems					
Orders of operations					
Mental calculations and estimation	2.23 – Teaching point 1				
Reason from known facts	2.23 – Teaching point 1				

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AUTUMN					
Fractions A					
NEW VOC	CABULARY				
cancel, highest common factor, common numerator					
White Rose Objective	NCETM link				
Equivalent fractions and simplifying					
Equivalent fractions on a number line					
Compare and order (denominator)					
Compare and order (numerator)					
Add and subtract simple fractions					
Add and subtract any two fractions					
Add mixed numbers					
Subtract mixed numbers					
Multi-step problems					

AUTUMN

Fractions B

NEW VOCABULARY

cancel, highest common factor, common numerator

White Rose Objective	NCETM link
Multiply fractions by integers	3.9 – Teaching point 3
Multiply fraction by fractions	3.9 – Teaching point 3
Divide a fraction by an integer	3.9 – Teaching point 3
Divide any fraction by an integer	3.9 – Teaching point 3

Mixed questions with fractions	3.9 – Teaching point 3
Fraction of an amount	3.9 – Teaching point 3
Fraction of an amount – find the whole	3.9 – Teaching point 3

AUTUMN					
Converting Units					
NEW VOCABULARY					
tonnes, ounces, stone, miles					
White Rose Objective	NCETM link				
Metric measures					
Convert metric measures					
Calculate with metric measures					
Miles and kilometres					
Imperial measures					

SPRING					
Ratio					
NEW VOCABULARY					
ratio, proportion; for every_there are_, :(to); enlargement, scale factor					
White Rose Objective NCETM link					
Using ratio language	2.27 – Teaching point 1				
Ratio and fractions	2.27 – Teaching point 1				

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MAA

Introducing the ratio symbol	2.27 – Teaching point 1
Calculating ratio	2.27 – Teaching point 1
Using scale factors	2.27 – Teaching point 1
Calculating scale factors	2.27 – Teaching point 1
Ratio and proportion problems	2.27 – Teaching point 1

SPRING

Algebra

NEW VOCABULARY

algebra: Function, input, output; algebra, algebraic, rule; expression; substitute; formula, formulae; equation; value, possible values, enumerate

White Rose Objective	NCETM link
Find a rule – one step	1.31 – Teaching point 3
Find a rule – two step	1.31 – Teaching point 3
Forming expressions	1.31 – Teaching point 3
Substitution	1.31 – Teaching point 3
Formulae	1.31 – Teaching point 3
Forming equations	1.31 – Teaching point 3
Solve simple one-step equations	1.31 – Teaching point 3
Solve two-step equations	1.31 – Teaching point 3
Find pairs in values	1.31 – Teaching point 3
Enumerate possibilities	1.31 – Teaching point 3

SUMMER

Decimals				
NEW VOCABULARY				
White Rose Objective	NCETM link			
Three decimal places				
Multiply by 10, 100 and 1,000				
Divide by 10, 100 and 1,000				
Multiply decimals by integers	2.28 – Teaching point 2			
Divide decimals by integers	2.28 – Teaching point 2			
Division to solve problems	2.28 – Teaching point 2			
Decimals as fractions	3.10 – Teaching point 1			
Fractions to decimals (1)	3.10 – Teaching point 1			
Fractions to decimals (2)	3.10 – Teaching point 1			

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Fractions, Decimals and Percentages – To be updated Autumn 2022

NEW VOCABULARY		
White Rose Objective	NCETM link	

SPRING	
Area, Perimeter and Volume	
NEW VOCABULARY	
White Rose Objective	NCETM link
Shapes – same area	2.30 – Teaching point 1
Area and perimeter	2.30 – Teaching point 1
Area of a triangle (1)	2.30 – Teaching point 2
Area of a triangle (2)	2.30 – Teaching point 2
Area of a triangle (3)	2.30 – Teaching point 2
Area of a parallelogram	2.30 – Teaching point 3
What is volume?	
Volume – counting cubes	
Volume of a cuboid	

SPRING

Statistics

 $V_{A} = V_{A} = V_{A$

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NEW VOCABULARY		
mean, pie chart		
White Rose Objective	NCETM link	
Read and interpret line graphs		
Draw line graphs		
Use line graphs to solve problems		
Circles	3.10 – Teaching point 6	
Read and interpret pie charts	3.10 – Teaching point 6	
Pie charts with percentages	3.10 – Teaching point 6	
Draw pie charts	3.10 – Teaching point 6	
The mean		

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Shape

NEW VOCABULARY

vertically opposite (angles), internal angles; circumference, radius, diameter, centre

White Rose Objective	NCETM link
Measure with a protractor	
Introduce angles	
Calculate angles	
Vertically opposite angles	
Angles in a triangle	
Angles in a triangle – special cases	
Angles in a triangle – missing angles	
Angles in special quadrilaterals	

Angles in regular polygons	
Draw shapes accurately	
Draw nets of 3D shapes	

SUMMER		
Position and Direction		
NEW VOCABULARY		
four quadrants		
White Rose Objective	NCETM link	
The first quadrant		
Four quadrants		
Translation		
Reflection		