Mathematics Programme of Study at Hopton

The DFE approved White Rose scheme is used throughout the school. It covers the curriculum objectives in EYFS, KS1 and KS2.

White Rose uses the Concrete, Pictorial Abstract approach giving children daily opportunities to work with concrete resources and pictorial representations to embed a secure understanding of abstract concepts. The focus on fluency and problem solving develops children's confidence in mathematical understanding and reasoning.

In the Early Years Foundations Stage, children are introduced to early number knowledge and mathematical concepts. Children have daily maths inputs, maths challenge time and everyday opportunities to explore maths in their own exploration time. The children gain a secure and deep understanding of numbers to 10. They are also introduced to numbers beyond 10 and the beginnings of place value. Wider areas of maths including patterns, shapes and measurement are taught throughout the year. The sequence of learning is a progression of small steps towards meeting the Early Learning Goals in the EYFS 2021 framework.

KS1 classes follow the White Rose Schemes of learning for mixed age groups beginning the year with a grounding in number. All classes then progress onto learning about the four operations. Fractions and decimals are taught next in the sequence. The areas of maths are taught at a pace that is appropriate to the class. The wider areas of math: shape, measurement, statistics and algebra are taught when appropriate and can be chunked, combined and placed in a sequence of learning that best suits the needs of the class.

Consolidation periods of learning occur informally at the end of a unit of work and formally at the end of term before an assessment period.

EYFS

Autumn	Introduction to EY Math: Routines, Maths Songs and Verbal Counting Matching and Sorting	Comparing Amounts Exploring patterns Numbers 1-3 Subitising, representing, Comparing, Composition	2D shapes Representing the numbers 0 to 5 Finding one more and one less	Shapes with 4 sides Consolidation
Spring	Comparing numbers to 5 Composition of numbers 4 and 5 Comparing mass and capacity	Making 6, 7, 8 Doubles Length and height	Counting to 9 and 10 Making 9 and 10 Comparing numbers to 10	Odd and even numbers 3D shapes Patterns

		Time	Number Bonds (to 10)	
Summer	Building numbers beyond 10 Counting patterns Addition and subtraction Doubling	Matching, rotating and manipulating shapes	Sharing and grouping Odd and even numbers Positional Language	Spatial reasoning: Visualising and building Mapping Consolidation Reviewing all areas of Maths

KS1

Autumn	Place Value (within 20)	Addition and Subtraction within 20 Number bonds	Place Value (within 100)	Shape Consolidation and Assessment
Spring	Addition and Subtraction within 100	Multiplication and division	Length and Height	Statistics Consolidation and Assessment
Summer	Money (SATS preparation, address misconceptions)	Fractions (SATS preparation, address misconceptions)	Time Mass, Capacity and Temperature	Position and direction Consolidation and Assessment

LKS2

Autumn	Number Place Value	Addition Subtraction (Up to 4 digit numbers)	Multiplication Division	Area Consolidation and Assessment
Spring	Multiplication Division	Length and Perimeter Fractions	Mass and Capacity Fractions	Consolidation and Assessment
Summer	Time Decimals	Money Shape	Position and Direction Statistics	Consolidation and Assessment

UKS2

Autumn	Number Place Value	Addition and Subtraction Multiplication and division	Fractions	Multiplication and Division Consolidation and Assessment
Spring	Multiplication and Division	Fractions Decimals	Area, Perimeter and Volume Decimals	Fractions, decimals and percentages Consolidation and Assessment
Summer	Ratio Algebra (SATS preparation, address misconceptions)	Shape Position and Direction (SATS preparation, address misconceptions)	Statistics Converting units	Consolidation and Assessment