



Mathematics Programme of Study at Hopton

The DFE approved White Rose scheme is used throughout the school from EYFS to Year 6. White Rose goes hand in hand with teaching the KS1 and KS2 National Curriculum objectives.

Our school mostly follow the White Rose Schemes of learning for mixed age groups: All mixed age classes begin with a grounding in number by covering the Number and Place Value units of work. 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

White Rose is also used in Willow class to introduce children to early number knowledge and mathematical concepts. It will also help them to become familiar with the mathematical structures and resources that they will use as they progress throughout the school. Children have daily maths inputs and everyday opportunities to explore maths in their own exploration time. The children gain a secure and deep understanding of numbers to 10 but are exposed to numbers beyond 10 too. Wider areas of maths: patterns, shapes, measurement are also taught throughout the year. The sequence of learning is a progression of small steps towards meeting the Early Learning Goals of the EYFS 2021 framework.

<i>Autumn</i>	<i>Introduction to EY Math: Routines, Maths Songs and Verbal Counting Matching and Sorting</i>	<i>Comparing Amounts Exploring patterns Numbers 1-3 Representing, Comparing, Composition</i>	<i>Representing the numbers 0 to 5 Finding one more and one less</i>	<i>Comparing Size, Mass and Capacity 2D Shapes Positional Language 2D shapes</i>
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				<i>Time</i>
<i>Spring</i>	<i>Comparing numbers to 5 Composition of numbers 4 and 5 Comparing mass and capacity</i>	<i>Combining two amounts Making pairs Making 6, 7, 8</i>	<i>Counting to 9 and 10 Making 9 and 10 Comparing numbers to 10 Number Bonds (to 10)</i>	<i>Length Time 3D shapes Patterns</i>
<i>Summer</i>	<i>Building numbers beyond 10 Patterns when counting Numbers beyond 10</i>	<i>Adding more Taking Away Doubling</i>	<i>Sharing and Grouping Even and Odd Deepening understanding of Pattern Consolidation</i>	<i>Spatial reasoning: Matching, rotating and manipulating shapes Composing and Decomposing shapes Visualising and building Mapping</i>

KS1

In Holly Class the children begin with a unit of work on number and place value and use numbers that are appropriate for the pupils within the class. In the autumn term the children are given an introduction and are exposed to all areas of maths. In the spring term they revisit concepts and in the summer term they consolidate their knowledge.

<i>Autumn</i>	<i>Number Place Value (to 100) Number bonds</i>	<i>Addition Subtraction (1 and 2 digit numbers) Multiplication Division</i>	<i>2d and 3d Shape Position</i>	<i>Consolidation and Assessment</i>
<i>Spring</i>	<i>Fractions</i>	<i>Money Measure: Length and Height, Weight and Mass, Capacity</i>	<i>Time Statistics</i>	<i>Review the 4 operations Consolidation and Assessment</i>
<i>Summer</i>	<i>Review all areas of Maths (SATS</i>	<i>Review all areas of Maths (SATS</i>	<i>Review all areas of Maths</i>	<i>Review all areas of Maths</i>

	<i>preparation, address misconceptions)</i>	<i>preparation, address misconceptions)</i>		
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LKS2

In Oak class, the children begin with number and place value using numbers appropriate for their age: three digit numbers up to 1000 (YR3) and four digit numbers with an awareness of numbers to 10,000. (YR4).

<i>Autumn</i>	<i>Number Place Value</i>	<i>Addition Subtraction (YR3- 1, 2 and 3 digit numbers) (YR4 – 2, 3 and 4 digit numbers)</i>	<i>Multiplication Division</i>	<i>Consolidation and Assessment</i>
<i>Spring</i>	<i>Multiplication Division Fractions Decimals (YR4)</i>	<i>Length, Perimeter and Area</i>	<i>Measurement: Mass and Capacity</i>	<i>Consolidation and Assessment</i>
<i>Summer</i>	<i>Decimals with Money</i>	<i>Time Statistics</i>	<i>Geometry and Shape Position and Direction</i>	<i>Consolidation and Assessment</i>

UKS2

In Ash class, the children follow the National Curriculum coverage statements for their year group.

<i>Autumn</i>	<i>Number Place Value Number fluency logic</i>	<i>Four operations: Addition Subtraction (Focusing on weaker areas to develop)</i>	<i>Multiplication Division (Focusing on weaker areas to develop)</i>	<i>Fractions</i>
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<i>Spring</i>	<i>Fractions</i>	<i>Decimals Percentages</i>	<i>Yr 6: Algebra Statistics and Ratio (all introduced when appropriate)</i>	<i>Measurement: Perimeter, Area, Volume Converting units</i>
<i>Summer</i>	<i>Geometry Properties of Shape Position and Direction</i>	<i>YR 6 SATS</i>	<i>YR 5: Investigations and Consolidation</i>	<i>YR 6: Challenge and Problem solving KS3 Transition Preparation</i>