



## Valley End Mathematics Curriculum Overview

### Intent

At Valley End we aim to give the children a solid, foundational understanding of number, the four main mathematical operations (addition, subtraction, multiplication and division), fractions, shape, measures, position and direction. We also aim to develop pupils' mathematical fluency and develop pupils' reasoning, problem solving skills and mathematical application so that they understand and appreciate the importance of mathematics within the world that we live in. We develop the pupils' mathematical confidence through a Maths Mastery approach, which develops skills, techniques and understanding, enabling Mathematics to become an enjoyable subject, that teaches key skills for life.

### Implementation

At Valley End we have adopted the White Rose Maths (WRM) scheme. WRM provides Schemes of Learning for all our pupils, from Early Years to Year 2, supporting teachers, and parents, in helping children work towards Maths Mastery. Our aim is for pupils to become fluent in the fundamentals of Mathematics, to be able to reason and solve problems. WRM advocates the Concrete-Pictorial-Abstract approach to teaching maths, an approach that helps children understand mathematical concepts and make connections between different representations. In EYFS, our children are encouraged to explore and investigate number, shape, space and measures. Much of their Mathematical Development is embedded through learning and play in all areas of learning, such as Understanding the World and Expressive Arts and Design. Children develop skills in adding and subtracting, and using numbers in problem solving in the continuous provision, throughout the setting. Children explore shapes, learn the vocabulary of shape, compare measurements and to use non-standard measurements in their play. In Key Stage One, our children continue to explore and investigate mathematical concepts in order to gain a deeper understanding. They are taught to explore mathematical patterns and connections and to talk about their methods and reasoning using appropriate mathematical language and vocabulary. There is a strong emphasis on mental mathematics, problem solving, using and applying mathematics which enables children to practise their developing skills in a range of contexts. The teaching and learning of Mathematics is engaging, creative and through the use of effective teaching strategies and resources, deepens pupil understanding.

### Impact

The philosophy behind White Rose Maths focuses on making maths fun for children and helps them to find enjoyment in number problems. When children are engaged in, and enjoying maths, deeper learning happens. Through the White Rose Maths approach to teaching, all children have the same opportunities to learn and the support they need to fully grasp concepts. At Valley End, the majority of children reach the expected standard for EYFS and many children exceed this, ensuring they are ready to access the Year 1 curriculum for Mathematics. This is also true for our Key Stage 1 children, where children are able to apply their understanding, at an age appropriate level, and have developed a confidence to begin to reason and solve problems.



## Curriculum Map

### Early Years Foundation Stage

	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	Getting to know you (Take this time to play and get to know the children!)			Just like me!			It's me 1, 2, 3!			Light and Dark		
Spring	Alive in 5!			Growing 6, 7, 8			Building 9 and 10			Consolidation		
Summer	To 20 and Beyond			First, then, now			Find My Pattern			On the Move		

### Year 1

	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: Place Value (within 10)				Number: Addition and Subtraction (within 10)					Geometry: Shape	Number: Place Value (within 20)	
Spring	Consolidation	Number: Addition and Subtraction (within 20)			Number: Place Value (within 50)			Measurement: Length and Height		Measurement: Weight and Volume		Consolidation
Summer	Consolidation	Number: Multiplication and Division			Number: Fractions		Geometry: Position and Direction	Number: Place Value (within 100)		Measurement: Money	Measurement: Time	



## Year 2

	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: Place Value			Number: Addition and Subtraction					Measurement: Money		Number: Multiplication and Division	Consolidation
Spring	Number: Multiplication and Division				Statistics		Geometry: Properties of Shape			Number: Fractions		
Summer	Measurement: Length and Height		Geometry: Position and Direction		Consolidation and problem solving		Measurement: Time		Measurement: Mass, Capacity and Temperature			Consolidation