"Giving children the keys to unlock their future"



St Peter's C of E Academy - Mathematics

At St Peter's we value a maths curriculum that is creative and engaging. We are committed to developing a sense of curiosity about the subject, as well as an appreciation of the beauty, power and enjoyment of Mathematics. We believe all children can achieve in mathematics and teach the necessary skills to make them "deep thinkers", acquiring maths skills that can be recalled quickly and transferred and applied in different contexts. They need to be able to make rich connections across the maths curriculum and use their knowledge in other subjects. Maths is the foundation for understanding the wider world and we want our children to be able to use their mathematical skills and knowledge confidently in their lives in a range of different contexts.

At St Peter's the children study mathematics daily covering a broad and balanced mathematical curriculum including elements of number, calculation, geometry, measures and statistics. To help structure and plan our lessons, every class from EYFS to Y6 use the White Rose Maths schemes of learning to ensure firm foundations and sequence our learning. We implement our approach through high quality teaching delivering appropriately challenging work for all individuals. Children are taught through clear modelling and have the opportunity to develop their knowledge and understanding of mathematical concepts. The White Rose approach incorporates using objects, pictures, words and numbers to help children explore and demonstrate mathematical ideas, enrich their learning experience and deepen understanding at all levels. To support this teaching, we have a range of mathematical resources in classrooms including Numicon, Base10 and counters (concrete equipment). When children have grasped a concept using concrete equipment, images and diagrams are used (pictorial) before moving to abstract questions. Abstract maths relies on the children understanding a concept thoroughly and being able to use their knowledge and understanding to answer and solve maths without equipment or images.

Reasoning and problem solving are integral to the activities children are given to develop their mathematical thinking. Children are encouraged to explore, apply and evaluate their mathematical approach during investigations to develop a deeper understanding when solving different problems and puzzles. Alongside the SOL, we use a range of rich resources to enhance our lessons and deepen understanding from websites such as NCETM and NRich.

In order to advance individual children's maths skills in school and at home, the children are encouraged to use computer software for further practise, application and consolidation. Children with additional needs are included in whole class lessons and teachers provide scaffolding and

relevant support as necessary. For those children who are working outside of the year group curriculum, individual and group learning activities are provided to ensure their progress.

Due to the interconnected nature of mathematics, at St Peter's we aim to teach maths in a cross curricular manner as well as discretely to teach the practical application of mathematical skills. We focus not only on the mathematical methods but also on mathematical vocabulary to broaden and deepen mathematical understanding.

We aim for all children to develop:

Reception

- The confidence and belief that they can learn about a new maths area and apply the knowledge and skills they already have.
- The mathematical concepts, skills and language to explain their ideas and to independently apply the concept to new problems in unfamiliar situations.
- A quick recall of facts and procedures including the recollection of the times tables.
- The ability to recognise relationships and make connections in maths lessons.
- The knowledge of how and why maths is used in the outside world and in the workplace.



## <u>Year 1</u>

	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					Geometry Shape			
Spring	Measurement Number Money Multiplicati			on and division Leng and heig			ement Measurement th Mass, capacity a ht temperat		rement S, icity an peratui			
Summer	Number Measu Fractions Tim		rement C		Stat	Statistics		Geometry Position and direction		lidatio		

	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				Number Multiplication and division A				
Spring	<sup>Number</sup> Multiplicati and division	Measurement Length and perimeter			Number Fractions A			Measurement Mass and capacity				
Summer	Number Measurement Fractions B Money		ement 2 <b>y</b>	Measurement Time			Geometry Shape		Stati	stics	Consolidation	



## <u>Year 5</u>

## <u>Year 6</u>

	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	<sup>Number</sup> Addition and subtraction	Number. Multiplication and division A	Number Fractions A	
Spring	<sub>Number</sub> Multiplication and division B	Number Fractions B	<sup>Number</sup> Decimals and percentages	Measurement Perimeter and area	Statistics
Summer	Geometry Shape	Geometry Position and direction	Number Decimals	se Measure que Conv e offer se de conve units	erting

