



Maths' Vision Statement

At Alexandra Park Primary School, we aim for every child to become a life-long learner with maths playing a central role. Maths is much more than a school subject and delivers children vital problem-solving, reasoning and logic skills. Each and every child should leave Alexandra Park Primary School with a thirst for knowledge and a desire to learn at every opportunity, having been inspired through maths. Think, think, think!

Care

Pupils are encouraged to see maths as a stepping stone to becoming a real-world problem solver.

We want them to Care about their futures and see how maths can have a great impact on them and all they aim to achieve.

Aspire

Studying maths enables children develop their thinking and logic skills. These are skills that they can apply to other areas of life and learning and provide them with a foundation and platform from which to Aspire in different ways. Like with Care, this links directly to their future performance and a desire to be all they can be.

Achieve

Our maths' curriculum provides children of all ages and abilities the opportunity to Achieve through a variety of different teaching and learning methods.

Intent

At Alexandra Park Primary School, we see maths as a core subject that can underpin a child's knowledge, success and motivation. It is intended that each child acquires the foundational knowledge required to further develop their reasoning and problem-solving skills, thus allowing them to feel confident and motivated. Each child should be provided the opportunity to gain core facts and concepts upon which they can build their understanding.

Children learn to 'work through desirable difficulty' (**Aspire**) in maths and use what they know to find a way to solve problems and this is an invaluable life skill and one that helps them develop as life-long learners. (**Care**)

Implementation

At Alexandra Park Primary School, we have a curriculum design which uses small, sequenced and logical steps, allowing children to access their learning in a structured manner.

We have a focus on foundational knowledge (such as number and multiplication facts) as the children begin their maths' journey. This is then continually built upon using a curriculum that has been carefully sequenced by maths' experts via The White Rose Maths' Hub. Our teachers use their expert knowledge to deliver this curriculum to fit their own class. Teachers use a variety of manipulatives and models (Base Ten, Ten Frame, Rekenreks) to scaffold the learning of those children who may be struggling or requiring extra support.

Teachers also have the opportunity to develop their own lessons when and where necessary to provide valuable repeated practice of a skill.

Teachers are encouraged to take active control and responsibility for the needs of their pupils, providing a tailored maths' education that is unrivalled.

Where pupils do struggle with a concept or idea, a system of support beyond the classroom is put in place. This comes in the form of pre-teach, follow-up and specific interventions.

Teachers are encouraged to use purposeful games and physical activities. Games may include those that encourage the use of basic facts (Greedy Pig, Shut the Box) or those that encourage repeated practice of a skill (a board game which involves multiplication). They also use physical activities to support certain areas of maths such as shape, space and measure (use of liquid for capacity and volume etc.)

All of the above is designed to give each and every child the very opportunity to **Achieve**.

Impact

What OFSTED say...

"In mathematics, pupils learn about progressively more complicated relationships between numbers so that they can approach calculations and investigations from a variety of standpoints. As a result, they develop flexibility and inventiveness in their thinking."

End of Key Stage 2		School average scaled score	% achieved at Alexandra Park	National Average
Maths 2017	Met Expected Standard	106.4	84.7	75
	Greater Depth Standard		32.2	23
Maths 2018	Met Expected Standard	108	93.2	76
	Greater Depth Standard		37.3	24
Maths 2019	Met Expected Standard	106	89	79 (105 SS)
	Greater Depth Standard		30	27

2021/22 Data KS2	EXS	GDS	Boys	Girls	SEN	PP	FSM
National	71%	23%	72%	71%	40%	57%	55%
Alex Park	90%	54%	83%	97%	50%	86%	83%