
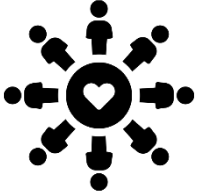
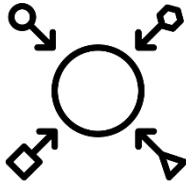


Curriculum Statement for Mathematics at Alder Grove CofE Primary School



Alder Grove
Church of England Primary School

		
Community Centred	Proactive Citizenship	Inclusive Education

Intent:

Mathematics is an interconnected, creative discipline that is at the roots of pupils' everyday lives. In order to create a love of mathematics, we aim to ensure every pupil is equip with the skills needed to become confident, independent risk takers.

Mathematics is taught in all areas of the curriculum through applying knowledge and understanding and solving real life, everyday problems. Although number, rules and operations must be taught in isolation, we believe providing opportunities to apply these skills is vital to show mastery of the subject.

We want our pupils to develop a love of mathematics, developing a natural curiosity and enjoyment with clear understanding. We use mistakes and misconceptions as an essential part of learning and provide challenge through rich and sophisticated problems. They will spend time becoming true masters of content, applying and being creative with new knowledge in multiple ways.

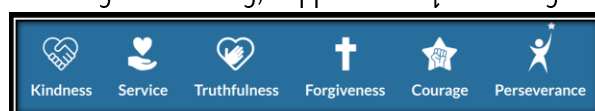
We aim for **all** pupils:

- To foster a positive mindset towards mathematics, recognising its creativity and the relevance of it in everyday life
- To become fluent and resilient in the foundational of mathematics
- To apply knowledge and understanding in order to solve sophisticated everyday problems
- Reason and justify mathematically through mathematical vocabulary, mental calculations and written procedures

Implementation

Aligned with our core values and principles, at Alder Grove we have embedded a scheme called Power Maths; a whole-class mastery approach (from Reception to Year 6) that aims to work for every child.

- At the heart of maths at Alder Grove is the belief that all children can achieve.
- We use interactive whole class teaching model, encouraging precise mathematical language, allowing children to deepen their understanding as far as they can.
- Our Maths curriculum is built on an exciting growth mindset and problem-solving approach. Our school approach fostering Power Maths is aligned with the Early Years Foundation Stage (EYFS) curriculum and the National Curriculum.
- Power Maths uses a unique lesson sequence designed to empower children to understand core concepts and grow in confidence. The lesson sequence delivers daily maths lessons (Year 1 – 6 one hour per day and Reception 15-20 minutes sessions daily)
- Differentiate maths through resourcing, support and questioning.



- Value the importance of mathematical fluency and use a range of retrieval tasks in lessons to help children improve their confidence and retention of mathematical learning. (Power Ups)
- Flexibility is built into the Power Maths programme so there is no one-to-one mapping of lessons and concepts meaning you can pace your teaching according to your class.
- While some children will need to spend longer on a particular concept (through interventions or additional lessons), others will reach deeper levels of understanding. However, it is important that the class moves forward together through the termly schedules.
- Same day intervention provided to children who struggled or need further support based on the lesson.
- Our drive is to ensure all children become fluent in the fundamentals of mathematics through the use of concrete resources, progressing to pictorial models and then abstract methods of working.
- Develop our mathematical language using sentence stems and focussing in on the understanding of relevant mathematical words and terminology.

Intended Impact

Through our Mathematics curriculum, our pupils will develop an enjoyment and curiosity about maths regardless of their attainment or background. Our pupils will also be equipped with the fluency, reasoning and problem-solving expertise that will enable them to be numerate and mathematically creative members of society. Children at Alder Grove will leave school at the end of Year 6 so that they are secondary ready to continue their onward mathematical learning.

Assessment

Assessments of the children's knowledge and understanding will be ongoing throughout the year. Assessment will include observations, discussions and written outcomes. A summative assessment of whether a child is working at age related expectations plus their attitude to learning Maths will be reported to parents/carers in a written annual report.

