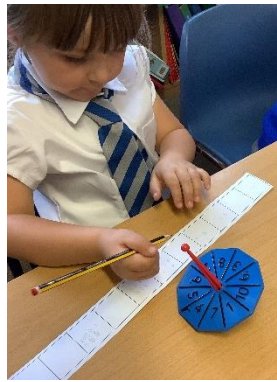




EXPLORING MATHS

Intent • Implementation • Impact

Pembroke is a school where we encourage everyone to be **inspired** through faith in God and to live by Christian values so that our **teaching and learning** is of the highest quality, our whole community **flourishes** and we reflect all that is worthy of **praise**.

INTENT	How does maths inspire our children?	We aim to promote a life-long love for mathematics, where children have the confidence in their arithmetic skills, to reason mathematically and solve real-life problems across a range of contexts. Rich, meaningful experiences are provided and children are encouraged and challenged to reach their potential. The mastery approach adopted by our school supports a deep and sustainable understanding of maths, where concrete materials, pictorial representations and symbols are used to support children. To ensure its purpose and to make rich connections across subject areas, we make use of maths as a tool beyond our daily maths lessons. We want our children to move to their next stage in learning passionate about numbers and use them efficiently in their wider lives.	
IMPLEMENTATION	How is our teaching and learning in maths organised?	To ensure consistency and progression across the school, we use the White Rose Maths Hub materials for planning and teaching purposes in mixed-age classes. Teachers refer to the school's calculation policy, which emphasises the use of the Concrete, Pictorial, Abstract approach ensuring that pupils are supported and make connections between different representations. Children develop their curiosity in creative lessons using investigative activities from Nrich, enabling children to explore concepts and notice patterns. Each maths lesson recaps on previous learning, then offers a range of fluency, reasoning and problem-solving activities. Because we give immediate feedback, intervention can be swift to overcome difficulties. On a weekly basis, 'Maths Blast' is completed by children across the whole school. Its primary aim is to improve children's speed and fluency of number facts and times tables.	
IMPACT	How does maths help our children to flourish and be worthy of praise?	Our children are engaged and enthused by maths. They have the ability to explore and question, and the confidence to take risks. They are able to make connections across subject areas and real-life scenarios. When faced with a mathematical problem, we aim for them to have the tools and models needed in order to tackle their way through with growing independence. Upon doing so, they are able to reflect and build the resilience to learn from their mistakes. We value the opportunities we give for children to show mathematical understanding through explaining science or geography data, for example, and are proud of their abilities.	