



Penns Primary School

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Dear Parents and Carers,

Power Maths and the Teaching for Mastery Approach

As you are aware, we are currently participating in a two-year Primary Mathematics Teaching for Mastery programme with the NCETM in order to enhance the teaching and learning of maths across the school. This year, we aim to continue to embed the skills that are required to develop mathematicians who are confident in using and applying their understanding. We are committed to deepening our children's understanding and ability to work fluently with mathematical concepts. To support this, we have chosen to adopt a maths scheme called *Power Maths*, as recommended by the DfE. Through developing and embedding teaching for mastery approaches, our aim is that we will support our pupils' understanding by following a 'concrete, pictorial to abstract' method. This will empower all children to access the curriculum and increase confidence in maths.

What is Power Maths?

Power Maths is a resource that has been designed for UK schools based on research and extensive experience of teaching and learning around the world and here in the UK. It has been designed to support and challenge all pupils, and is built on the belief that EVERYONE can learn maths successfully.

How does this support our approach to teaching?

The philosophy behind *Power Maths* is that being successful in maths is not just about rote-learning procedures and methods, but is instead about problem solving, thinking and discussing. Many people feel they were taught maths in a way that was about memorising formulas and calculation methods, then having to apply them without any real understanding of what or how these methods actually work. *Power Maths* includes practice questions to help children develop fluent recall and develop their conceptual understanding. *Power Maths* uses growth mindset characters to prompt, encourage and question children. They spark curiosity, engage reasoning, secure understanding and deepen learning for all.

How will the lessons work?

Each lesson has a progression, with a central flow that draws the main learning into focus. There are different elements, informed by research, that enhance best practice in maths teaching and that bring the lessons to life:

- **Discover** – each lesson begins with a problem to solve, often a real-life example, sometimes a puzzle or a game. These are engaging and fun, and designed to get all children thinking.

- **Share** – the class shares their ideas and compares different ways to solve the problem, explaining their reasoning with hands-on resources and drawings to make their ideas clear. Children are able to develop their understanding of the concept with input from the teacher.
- **Think together** – the next part of the lesson is a journey through the concept, digging deeper and deeper so that each child builds on secure foundations while being challenged to apply their understanding in different ways and with increasing independence.
- **Practice** – now children practice individually or in small groups, rehearsing and developing their skills to build fluency, understanding of the concept and confidence.
- **Reflect** – finally, children are prompted to reflect on and record their learning from each session and show how they have grasped the concept explored in the lesson.

What if my child needs a confidence boost, or wants to be challenged further?

Power Maths is based on a mastery approach. This means that the concepts are broken down so that your child can master one idea without feeling over-whelmed. There are a range of fluency, reasoning and problem solving questions in each lesson that are designed to support the different needs and confidence levels within a class, while at the same time fostering a spirit of working and learning together. Each lesson includes a challenge question for those children who can delve deeper into a concept.

Please let us know how your children engage with *Power Maths*. We are looking forward to this adventure!

Best wishes,

Miss L Cole
Maths Lead



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