

Parents'
Information
Session

November 2019

Power Maths:

- has been designed for UK schools based on research and extensive experience of teaching and learning around the world
- recognises that 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
- Is based on a philosophy that being successful in maths is not just about rote-learning procedures and methods, but is instead about problem solving, thinking and discussing
- is designed to support and challenge all pupils, and is built on the belief that **EVERYONE** can learn maths successfully.

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

- *Power Maths* is based on a 'small-steps' approach, sometimes called 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 also includes a challenge question for those children who can delve deeper into a concept.

At the heart of Power Maths is the belief that
all children can achieve.

It rejects the idea that people simply 'can't do' maths.

- The curriculum is broken down into core concepts, taught in units e.g. addition and subtraction, multiplication and division, shape, statistics etc.
- Each unit is then divided into small learning steps – lessons
- Each lesson is sequenced in the same format:

Power Up

Discover & Share

Think Together

Practice

Reflect

Power Maths Reception brings a mastery approach to Early Years.

Each new concept is introduced over one week, in short daily sessions.

It combines Power Maths whole-class mastery teaching with Early Years best practice.

In addition to the materials shown here, each lesson has a strong focus on practical activities.



The Power Maths Pals



Astrid



Ash



Dexter



Flo



Brave



Curious



Determined



Flexible



Power Up

- We begin each maths lesson with a 'Power Up' activity designed to support fluency in all key number facts.
- Power Ups reinforce the two key things that are essential for success: **times tables** and **number bonds**.

Discover

&

Share

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.

The children all have their own practice book and they work independently, following the same learning that has been explored through the 'Discover', 'Share', 'Think Together' sections.

Reflect

Max says, 'A line graph starts from zero.'

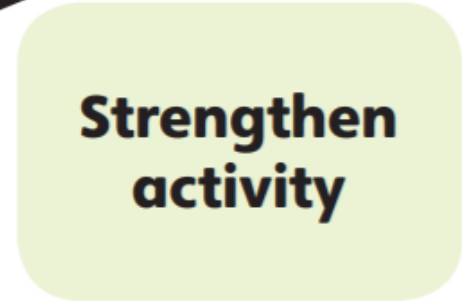
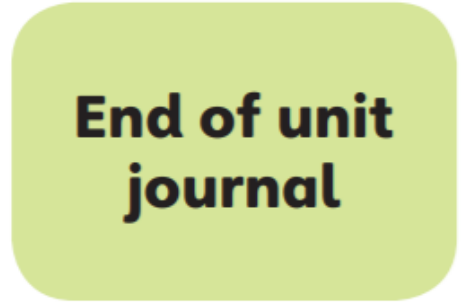
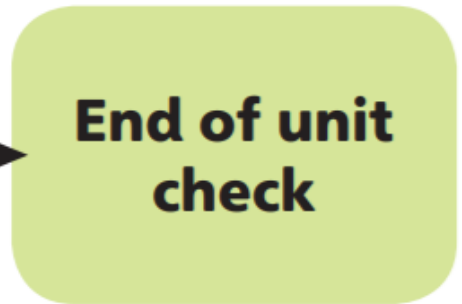
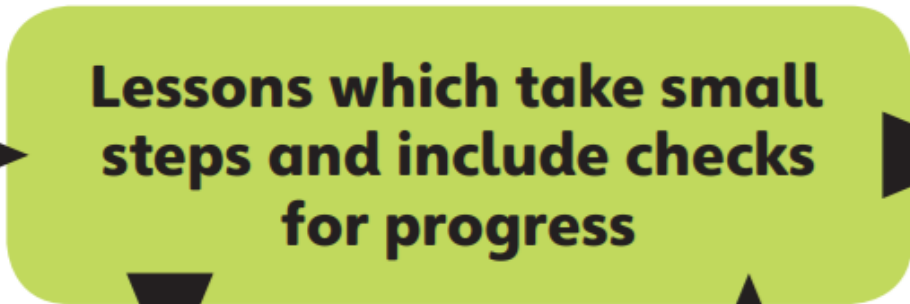
Is Max's statement always true, sometimes true or never true?

Explain your answer.



This section allows the teacher the opportunity to check children's understanding and how deeply the children have understood the maths concept being taught.

Quick check on prerequisite skills and a warm-up for children.



Rich assessments show mastery of key skills combined with a child self-assessment and reflection opportunity.



Intervention safety net: optional activities to use if assessment shows some children still have misconceptions.

