

MAP (Mental Arithmetic Practice) - Mission Statement



Maps are Powerful Tools!



- * A map present information about the world in a simple, visual way (National Geographic Society)
- * We remember maps more easily than text because we register images faster in our brain (Toppr.com)
- * Maps are symbolic depictions emphasising relationships (DfE 2021)
- * Maps enable us to plan routes from one place to another

MAP (Mental Arithmetic Practice) is a flexible and creative toolkit for teachers which uses the above principles to redefine the teaching and learning of mental mathematics in primary schools.

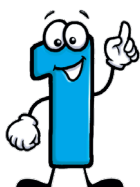


Maps presents children (and teachers) with: -

1. Simple ways to visualise and explore mental mathematics
2. Creative and engaging approaches, which train our brains to remember key facts and use a repertoire of mental arithmetic strategies
3. Opportunities to develop a deep understanding of the relationships between numbers and the number system
4. A selection of clear, achievable routes for solving any mental arithmetic question



2 Key Missions:




To equip teaching staff with the knowledge and understanding of the most engaging and effective ways to teach mental mathematics.



To give children a thorough and consistent approach to mental calculation, inspiring them to learn all key number facts and strategies, and giving them clarity to choose and name the most appropriate and efficient methods for any given calculation.

MAP (Mental Arithmetic Practice) - Overview



MAP stands for Mental Arithmetic Practice - a whole school approach for mental mathematics. It is a flexible and creative toolkit which redefines the teaching and learning of mental mathematics in primary schools.



MAP is comprised of three key strands, crucial for the development of mental mathematics:

1. Counting Skills
2. Knowledge of Number Facts
3. Proficiency in Mental Strategies



Rationale:

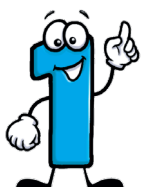
Since the introduction of the current curriculum for mathematics in 2014, with its focus on standard written procedures, there has been a recognisable decline nationally in children's mental maths skills.

For any calculation, we want children to confidently ask themselves :-

“Can I solve this mentally?” (with or without a jotting) and, if so,
“What strategy would be the best choice?”



2 Key Missions:



To equip teaching staff with the knowledge and understanding of the most engaging and effective ways to teach mental mathematics.



To give children a thorough and consistent approach to mental calculation, inspiring them to learn all key number facts and strategies, and giving them clarity to choose and name the most appropriate and efficient methods for any given calculation.



Navigating Mental Mathematics

Mission Statement And Overview



Previously, the teaching of mental mathematics was transformed by the original National Numeracy Strategy (NNS) in 1999. The accompanying booklet 'Teaching Mental Calculation' has since remained the only national guidance available for teachers.

MAP aims to change this and introduces a whole school approach for mental mathematics, building on and developing the principles of the NNS. It provides schools with a highly flexible and creative toolkit to run dedicated MAP (Mental Arithmetic Practice) sessions within school several times per week.

These sessions (totalling one to two hours of additional mathematics each week) provide a creative combination of counting activities, ways of learning facts and the development of a deep and thorough understanding of mental strategies.



MAP Toolkit: Enabling you to implement MAP in your school: -



MAP Guidance:

- How to build a programme of high-quality MAP sessions
- A range of potential timetabling models to fit any school scenario
- Instructions and video guidance on how to use the Digital Resource Bank and Number Fun effectively



MAP Planning and Progressions:

- Adaptable half-termly MAP Planning Blocks
- Comprehensive overviews of Counting and Learning Fact expectations
- Mental Strategy Progressions from the Visual Calculation Policy for all four operations



MAP Digital Resource Bank:

- A set of characters, songs, catchphrases & animations from the Number Fun Portal to help children learn, name and memorise calculation strategies
- A wealth of high-quality games and activities to enable children to practice and rehearse their facts and strategies
- A wide selection of additional downloadable resources and supporting physical products to further enhance the MAP sessions.



MAP Training:

- Online, pre-recorded introductions and guidance to explain the principles and key strands of MAP - found on the EuHu website
- Online CPD training for Subject Leaders, schools, MATs and clusters, with advice and support in how to deliver effective MAP sessions
- Live face-to-face training for schools, MATs and clusters – overview sessions, plus half and full day training programmes to equip all staff with highly effective strategies for teaching mental calculation.