

Dear Parents and Carers,

I am delighted to inform you that The Devonshire Hill Nursery & Primary School will be introducing the Mathematics Mastery Programme. This is an exciting venture for us as we believe this will have a significant impact on the progress of our pupils.

The Mathematics Mastery scheme of work is developed by ARK Schools, which is a charitable network of academy schools.

The ARK Schools network has evolved a shared mission to address educational disadvantage by promoting, developing, researching and supporting a mastery approach to teaching mathematics. Mathematics Mastery is a non profit organisation developed by ARK Schools to meet their aspiration of success for every child. Mathematics leaders and teachers within the network worked together to develop a curriculum and pedagogy that would meet this aspiration, and their collaboration now extends beyond the ARK network of schools.

The aim is to ensure that every child achieves excellence in mathematics.

Yours sincerely,

Anoria Simmons

Assistant Headteacher KS1 & LKS2
Whole School Leader for Maths

On average, pupils in schools adopting Mathematics Mastery made more progress than similar pupils in schools that did not adopt the programme. The small positive effect can be estimated as equivalent to approximately one month's additional progress. The effect detected was statistically significant, which means that it is likely that that improvement was caused by the programme.

Education Endowment Foundation, 2014

Key Stage 1 Mathematics Overview

- ✓ Master
- ✓ Apply
- ✓ Connect

| Big Ideas | Reception Modules | | | | | | Year 1 Modules | | | | | | Year 2 Modules | | | | | |
|-----------------------------|-------------------|---|---|---|---|---|----------------|---|---|---|---|---|----------------|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 1 | 2 | 3 | 4 | 5 | 6 | 1 | 2 | 3 | 4 | 5 | 6 |
| Number in base ten | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Patterns and sequences | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Measurement | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Shapes and position | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Addition and subtraction | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Mental calculations | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Word problems | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Money | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Time | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Graphs | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Multiplication and division | | | | | | | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Fractions | | | | | | | | | | | | | | | | | | |

Mathematics Mastery

For Reception & Year 1

Mathematics Mastery is the next step in our commitment to raise children's understanding, confidence and fluency in mathematics, leading them towards raised levels of success, achievement and attainment.

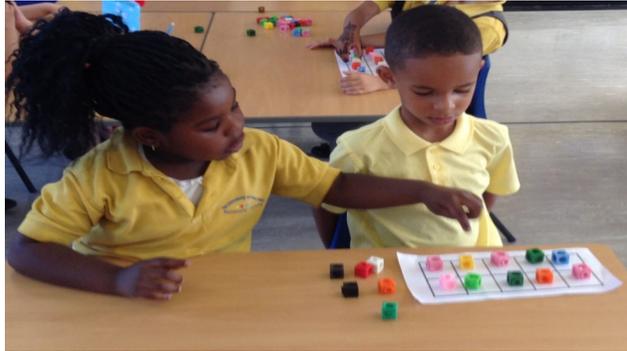


The Devonshire Hill Nursery & Primary School

Successful Learners

The Starting Point

Initially we will be starting Mathematics Mastery in Reception and Year 1, with the intention of introducing it into Year 2 in September 2017.



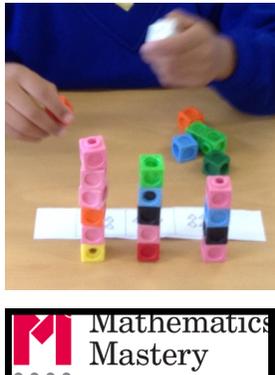
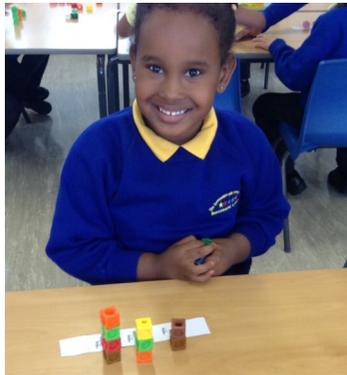
In addition to this leaflet, a parent/carer Maths Mastery session will be held on:

**Thursday 29th September, at 9:00am &
Monday 3rd October at 2:30pm**

In these sessions we will provide you with more information about this exciting initiative.

You can also visit the Mathematics Mastery to find out more:

www.mathematicsmastery.org



M Mathematics
Mastery

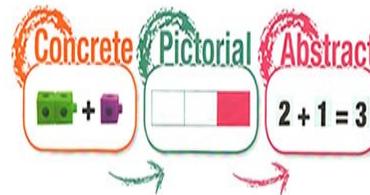
The Curriculum

The Mathematics Mastery curriculum has been developed to ensure that every child can achieve excellence in mathematics. It provides pupils with a deep understanding of the subject through a concrete, pictorial and abstract approach. This ensures pupils fully understand what they are learning.

Key features of our Maths Mastery curriculum:

- High expectations for every child
- Fewer topics, greater depth
- Number sense and place value come first
- Research -based curriculum
- Objects and pictures always before numbers and letters
- Problem solving is central
- Calculate with confidence– understand why it works

Mathematics Mastery places emphasis on the cumulative mastery of essential knowledge and skills in mathematics. It embeds a deeper understanding of maths by utilising a concrete, pictorial, abstract approach so that pupils understand what they are doing rather than just learning to repeat routines without grasping what is happening.



Tracking Pupil Progress

Mathematics Mastery assessment is continuous. From the beginning of every lesson, teachers and teaching assistants will be assessing what their pupils are, or are not understanding and use this to scaffold each segment of the lesson. Interventions will be both planned for and 'live'. This means that misconceptions are dealt with immediately and high attaining pupils are challenged appropriately.



What is New About the Mathematics Mastery Approach?

Actually, none of the individual aspects of the Mathematics Mastery programme is 'new'. They are tried and tested successful approaches that the best teachers, departments and schools have been using for years. However, what is special about Mathematics Mastery is that it brings these approaches and techniques together in a rigorous and systematic structure.