

## The Starting Point

Initially we will be starting Mathematics Mastery in Year 1, with the intention of introducing it into Year 2 and Reception in September 2013.



For further Information about Mathematics Mastery, please visit [www.mathematicsmastery.org](http://www.mathematicsmastery.org)



## 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	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Ofsted inspectors visited Ark Primary school in June 2011 to observe Mathematics Mastery in practice and to see how the programme could be adopted more widely. The Ofsted team interviewed pupils and staff. They reviewed the course materials, examined pupils' work and observed seven maths lessons. Their conclusion was that:

**"Pupils' achievement in number is outstanding. Pupils are developing a high level of proficiency for their age in addition, subtraction, multiplication and division. This is underpinned by a secure understanding of place value and good recall of number facts."**



# Mathematics Mastery

Mathematics Mastery is the next step in our commitment to raise standards in mathematics.

**ARK Atwood Primary Academy** has been chosen as a national pioneer for this new and exciting project.

Dear Parents and Carers,

I am delighted to inform you that ARK Atwood Primary Academy has been chosen to be a pioneer for the Mathematics Mastery Programme. This is an exciting venture for us as we believe this will have a significant impact on pupil progress.

The Mathematics Mastery scheme of work is developed by ARK Schools. 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 every child achieves excellence in mathematics.**

Kind Regards,



Daniel Upfield  
Headteacher

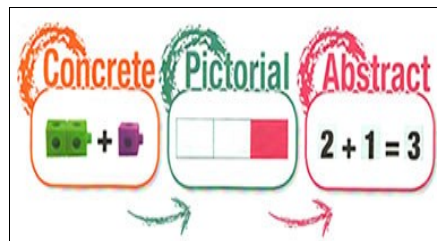
## The Curriculum

The Mathematics Mastery curriculum has been developed to ensure 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

In 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', meaning that misconceptions are dealt with immediately and high attaining pupils are challenged appropriately.

## What's 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.

