



Mathematics Policy

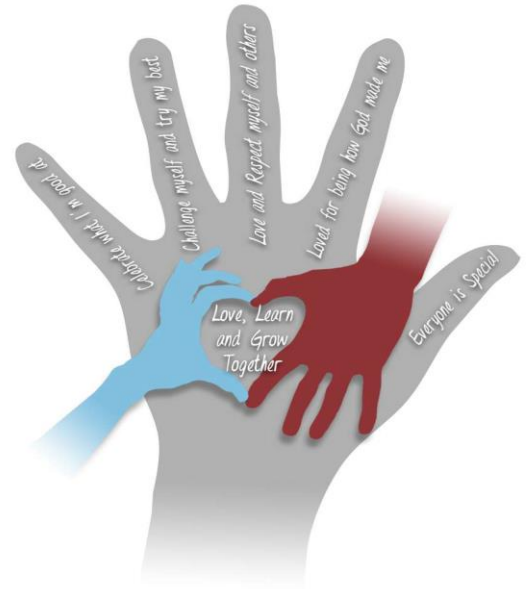
Reviewed and Updated:

April 2015

Vision and Mission

Our vision is that every single member of our community will love, learn and grow together. This is achieved by:

- Celebrating what we are good at
- Challenging ourselves and doing our very best in our work
- Loving and respecting ourselves and each other
- Knowing that we are loved for being just how God made us
- Accepting that everyone is special



Introduction and Aims

At the heart of our approach to mathematics at St John Fisher is a belief that every child is capable of achieving in maths, and should be given the very best opportunity to do so. We believe that a good grounding and understanding of mathematics is essential for later success in life and that every child is entitled to this.

In line with the National Curriculum, our aims in mathematics are to ensure that children:

- become fluent in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately
- reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language
- can solve problems by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions

Curriculum and Approach

We follow the Inspire Maths programme to ensure coverage and consistency throughout school. In FS2, children follow the Inspire 1 programme, with a focus on exploring the activities and concepts in a practical way.

In Y1, children continue with Inspire 1, going more deeply into the concepts and doing more recording to demonstrate understanding.

Until the programme is completely embedded throughout the other year groups, children will start with the Inspire programme that matches their year group, but teachers will 'track back' to previous books to fill any gaps that become apparent in children's understanding.



Since we are using a mastery approach to teaching maths, the following will be expected in all classes:

- all children working together on the same concept/key learning
- pre-teaching and same-day intervention is used daily in order to ensure all children keep up with the class learning
- a daily 10 minute 'maths meeting' outside of the maths lesson which either focusses on revising/practising key facts/mental maths etc, or is a 'mini-reasoning' lesson designed to encourage reasoning and deeper thinking.
- Concrete resources and pictorial representations used in every lesson
- Children using correct vocabulary and explaining what they are doing

Assessment

Assessment is ongoing and is recorded on EAZmag writer. Teacher judgement should be used to assess whether a child has 'mastered' an objective (Expected), gone into greater depth of understanding for that objective (Exceeding), or not yet achieved understanding (Just Below or Below). This will be supported by evidence from children's books, and with the use of formal tests. An overall judgement will then be generated.

Resources

Concrete resources are provided within each class and there is a central store of maths resources in the PPA room. If teachers require additional resources in order to effectively deliver the Inspire programme, they should put requests to the subject leader/s.

Display

There should be a maths display in each classroom which reflects current learning and shows different representations and correct vocabulary.

Each class should also have some celebration of children's work which is changed regularly, e.g. a 'Maths Champion' – this could be a photo of some practical work, or a photocopy or specially written-up piece of written work.

Each class should also have maths resources on display and easily accessible to the children.

Useful Links/Contacts

Each staff member had a personal login for the Oxford Owl website which contains online support and resources for Inspire Maths: www.oxfordowl.co.uk

The NCETM (National Centre for Excellence in Teaching of Mathematics) is a great site for up-to-date research and guidance. There are lots of useful resources and articles on here, including the 'Assessment for Mastery' documents which are really useful for 'deepening' activities.

www.ncetm.co.uk

Nrich is another good website for up-to-date research and lots of deepening and reasoning activities: www.nrich.maths.org



All staff and children from Y1 upwards also have logins for the Mymaths and TT Rockstars websites. These are great for setting homework.

www.mymaths.co.uk

www.ttrockstars.com

Reviewed and updated: Sept 2016

Signed: D.Evans