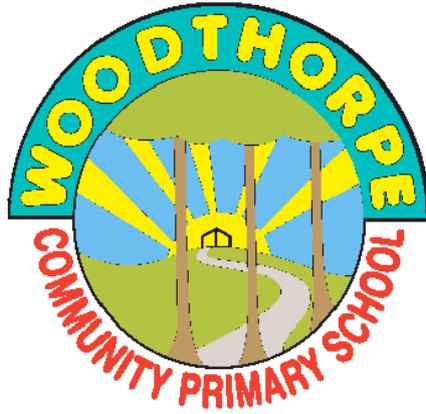


# Policy for Mathematics



**Woodthorpe Primary School**

**Subject Leader: Frank Reardon**

**Date: Updated Dec 2013**



## Woodthorpe Community Primary School

### Maths Policy

(Refer also to Learning and Teaching Policy, Marking Policy, Assessment Policy, Foundation Stage Policy and curriculum policies)

#### Our School Aims:

Learning together we will...

Understand and accept the rights and responsibilities of being citizens of the future

Be able to adapt to new challenges and offer **enterprising** solutions

Be **active** contributors to the wider community

Be **ambitious** and take **pride** in our achievements

Achieve high standards in all areas of the curriculum

Develop ourselves as **courageous, self-motivated, independent** and **collaborative** learners

Value and care for others in the local community and the wider world

Achieve our full potential as well rounded individuals

We will discover, value and enjoy our diverse society

...Learning together

### **In the spirit of inclusion we will work with our children to:**

- Achieve their full potential as well rounded individuals
- Achieve high standards in all areas of the curriculum
- Develop themselves as confident, self-motivated, independent and collaborative learners
- Be able to adapt to new challenges and opportunities
- Be active contributors to the school and to the wider community
- Value themselves
- Value and care for others in the local community and the wider world
- Understand and accept the rights and responsibilities of being citizens of the future
- Learn about, value and enjoy our diverse society

### **Our School Aims:**

- To provide an **inspirational** curriculum which is **relevant** to **Woodthorpe Learners** in the 21<sup>st</sup> Century
- It will be responsive to the needs of the children
- It will be reflective of the interest of the community, both local, national and global
- To provide a curriculum that meets the requirements of The National Curriculum and locally agreed syllabus for Religious Education
- To ensure continuity and progression, through rigorous assessment

### **Delivery and organisation**

On leaving Woodthorpe pupil will;

- have a sense of the size of a number and where it fits into the number system
- know by heart number facts such as number bonds, multiplication tables, doubles and halves
- use what they know by heart to figure out numbers mentally
- calculate accurately and efficiently, both mentally and in writing and paper, in line with the agreed calculations policy.
- recognise when it is appropriate to use a calculator and be able to do so effectively
- make sense of number problems, including non routine problems, and recognise the operations needed to solve them
- explain their methods and reasoning using correct mathematical terms
- judge whether their answers are reasonable and have strategies for checking them where necessary
- suggest suitable units for measuring and make sensible estimates of measurements
- explain and make predictions from the numbers in graphs, diagrams, charts and tables
- develop spatial awareness and an understanding of the properties of 2d and 3d shapes

Pupils are provided with a variety of opportunities to develop and extend their mathematical skills in and across each phase of education.

Lessons follow a flexible format flexible depending on the objectives being taught. Mental Maths can be taught separately to the main Maths sessions. The teaching of mathematics at Woodthorpe Primary School provides opportunities for:

- group learning
- paired learning
- whole class teaching
- individual learning

Pupils engage in:

- the development of mental strategies
- consolidation of basic skills and number facts
- practical learning

- investigations
- problem solving
- mathematical discussion
- Written methods (in line with the progression in calculation policy)

Teachers will endeavour to use a collaborative approach to teaching and learning, using approaches such as; talk partners, in order to engage learners at all time. Lessons will be 'chunked' and opportunities for brain breaks used where appropriate.

At Woodthorpe Primary School we recognise the importance of establishing a secure foundation in mental calculation and recall of number facts before standard written methods are introduced. We ensure that the correct vocabulary is used in all lessons and that children are given opportunities to explore this in other curriculum areas.

Mathematics contributes to many subjects and it is important the children are given opportunities to apply and use Mathematics in real contexts.

## **Planning**

An example of weekly planners is available on the network >work space> resources > planning 2013.14. on these planning sheets the children are grouped according to attainment levels and whether or not they are entitled to FSM. Target groups are also written on the weekly planner.

Teachers take their objectives from APP grids appropriate to the stage that the children in their class are operating at. Within a term there should be an even coverage of the different aspects of Maths. Teachers highlight objectives on their planning APP grid and should aim to cover all the objectives by the end of the year. Some objectives may be covered in mental Maths sessions which can take place in separate sessions. These objectives will be sighted on the weekly Maths planners.

## **Assessment**

Assessment for learning will be used to ensure that planning and lessons meet the needs of the children. Annotations will be made on planning to illustrate where changes have been made.

APP grids will be identified for targeted children in LA, AA, HA groups and will be used to inform planning and intervention needs of those groups. Some teachers use past optional and end of Key Stage SATs tests to moderate assessments. Additionally some phase teams have produced quick reference descriptors for Maths and moderate Maths judgements across year groups.

### **Monitoring**

Maths is monitored within the school's framework for monitoring the core subjects. The Maths leaders and SLT are responsible for ensuring the findings of monitoring lead to positive change and improvement.

### **Home learning**

See home learning policies on the network >work space> resources>home learning

### **Governance**

There is an identified member of the governing body for English who, through meetings with the Maths leader, CPD and learning walks in school supports and promotes the Maths policy at Woodthorpe.

**This policy was agreed by the Governing body on \_\_\_\_\_ and will be reviewed in \_\_\_\_\_.**

**Woodthorpe Community Primary**