



**ST JAMES**  
C.E. PRIMARY SCHOOL

# St James Church Of England Primary School

## Maths Policy

At St James Primary School we have aspirations for every single child to succeed. Our children learn through a creative and inspirational curriculum that enables all children to live "life in all it's fullness" (John 10:10) to enjoy life and purpose underpinned by Christian values and a love of learning.

**Dream, believe, learn, achieve.**

### **Rationale:**

At St James Primary School we aim to promote equality of opportunity for all our pupils regardless of particular characteristics. When planning our curriculum, staff take due regard to ensure no child feels discriminated due to their particular characteristic.

Our curriculum is made up of the planned activities that we as a school deliver in order to promote learning, personal growth and development. It includes not only the formal requirements of the National Curriculum, but also an exciting range of opportunities to enrich the experience. We aim to teach our children to grow into positive, responsible role models who can work and co-operate with others whilst developing the knowledge, skills and understanding within subjects as well as a positive attitude to use throughout their lives.

Mathematics is a key life skill, providing children with a means of making sense of the world in which they live. It is a proficiency, which involves confidence and competence with numbers, shapes, measures and data. It requires an understanding of the numbers system and an ability to solve problems in a variety of contexts. Mathematics demands practical understanding of the ways in which information is gathered, presented and sorted.

### **Purpose:**

Mathematics offers opportunities for children to:

- Develop confidence, competence and fluency with numbers, shapes, measures and data.
- Develop their mental agility in numeracy and the ability to have instant recall of basic facts.
- Explain their strategies and talk about their mathematics, sharing ideas with others.
- Develop times table recall skills in order to carry our mental calculations quickly, effectively and accurately.
- Develop skills in handling data and interpreting information gathering by counting and measuring and presenting in graphs, diagrams, charts and tables.
- Learn to enjoy mathematics and have a positive attitude, approaching all problems with confidence and enthusiasm.
- Reason and problem solve with aspects of mathematics and explain why they believe a question to be correct or incorrect, using a wide range of learnt mathematical vocabulary.
- Reach their full potential and achieve their highest possible personal standards.
- Develop their child's ability to apply mathematics to the solution of real life problems, so that they can see the relevance of what is being taught.

### **Guidelines:**

All children will be given equal opportunity to follow the National Curriculum Programme of Study for Numeracy. Lessons will be taught to mixed ability classes with work differentiated and matched to address needs.

Mathematics teaching in school will reflect the philosophy of the National Curriculum and 'Mastery' framework to which children are taught the skills of fluency, reasoning and problem solving. The numeracy framework will form the basis of our numeracy content, providing each child with a broad, balanced, relevant and differential curriculum that caters to the needs of all the learners in each class.

Planning will be linked directly to the numeracy programmes of study. The framework will provide an overview, while a weekly plan will set out daily lessons, focusing on objectives, pupil groupings, class organisation and vocabulary. Teachers

use daily formative assessment to adapt their planning where appropriate to meet the needs of all pupils.

To develop numeracy skills, mathematics teaching will take place on a daily 45-60 minutes basis and will take the form of whole class, group work or individual tuition, where appropriate. It will be mindful of each child's abilities, and will respect individual pace and progress. Support staff will be used to target the development of pupil's basic number skills where necessary or deployed to support the development of groups or individuals directed by the class teacher.

Children will use a variety of methods to record and present their work. When completing written methods they will follow the school's calculation policy.

Pupils will be assessed against Assertive Mentoring programme, throughout the year, which will inform teachers and children of mathematical concepts and areas to address and/or target.

ICT will be used to support and enhance mathematics teaching where relevant.

### **Mastery Skills:**

In addition to a secure understanding of number and calculation, children will be taught essential skills for high quality mathematics learning, Mastery in Mathematics means to acquire a deep, long-term, secure and transferable understanding of the subject, which include skills, such as:

- Problem Solving - applying/selecting strategies, methods and skills which are required to solve a problem.
- Reasoning - ability to explain results verbally, diagrammatically and in written form, using mathematical language and symbols appropriately. Children will be taught to think logically and justify their ideas.
- Securing recall facts, including multiplication/division facts and be able to apply them across a range of situations.

### **Multiplication tables:**

Year 1 - Count in 2s, 5s and 10s. Know 2s multiplication facts.

Year 2 - Know multiplication facts for 2s, 5s and 10s

Year 3 - Know multiplication and derive division facts for 2s, 5s, 10s, 3s, 4s and 8s

Year 4 - Know multiplication and derive division facts up to  $12 \times 12$

Year 5 - Know multiplication and division facts up to  $12 \times 12$ .

Year 6 - Know all multiplication and division facts up to  $12 \times 12$  confidently

### **Presentation:**

Children must be set high expectations for the presentation of their work:

- Children will use one symbol per square when writing out calculations (2-digit question numbers are acceptable to be presented in 1 square)
- Decimal points are used on the line between two numbers.
- Pencil needs to be used for all work in numeracy.
- Rulers must be used for all drawings of all lines.
- The writing of explanations should be legible, and follow school cursive script.
- Mistakes are crossed out neatly using a single line.
- All pupils' marking responses must be completed in purple pen.
- If children are responding to teachers or support staffs' verbal feedback, they will continue to do so in pencil.
- All work sheets must fit neatly on one page without the need for folding.
- WALT stickers will be stuck in at the top left of each new page in children's work books.
- The format for the date on all WALT labels will be 6 digits with dots, e.g. 21.09.18

### **Conclusion:**

Children are given a sound understanding of numbers, money and measures will have a solid foundation on which to develop the ability to use mathematics for everyday life and to communicate information and ideas.

**Policy Date:** September 2018

**Next Review Date:** September 2019

Our school aims to support all families and the wider community. Any queries or concerns regarding individual policies will be considered on an individual basis.

