



Bishop Bridgeman Church of England Primary School

Mathematics Policy

RATIONALE

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 and competence 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 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.
- 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. In Upper Key Stage 2 children will be taught in mathematic sets based on ability.

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.

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

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

All pupils will have Numeracy targets, which will be assessed throughout the year.

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 adaptable understanding of the subject, which include skills, such as:

- Problem Solving – knowing the strategies and resources, which need to be used to solve a problem.
- Reasoning – being able to explain their results verbally and in written form, using mathematical language and symbols. They will be able think logically and justify their ideas.
- Securing times tables facts and be able to apply them in lessons.

MULTIPLICATION TABLES

Year 1 – Count in multiples of 2, 5 and 10. Recall and use all doubles to 10 and corresponding halves.

Year 2 – Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables.

Year 3 – Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.

Year 4 – Recall and use multiplication and division facts for multiplication tables up to 12 x 12.

Year 5 – Revision of all times tables and division facts up to 12 x 12.

Year 6 – Revision of all times tables and division facts up to 12 x 12.

PRESENTATION

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

- Children will use one symbol per square when writing out calculations.
- Decimal points are used on the line between two numbers (not in it's own box).
- Pencil needs to be used for all work in numeracy.
- Rulers must be used for all drawings of lines.
- The writing of explanations should be legible.
- Mistakes are crossed out using a single line.
- All fix-its and challenges must be completed in purple pen.

CONCLUSION

Children are given a sound understanding of numbers 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.

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.

Prepared by:	Mr C Booth
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