St George's Beneficial C of E Primary School

Skills Goals Belief Success

Mathematics

At St. George's Beneficial C of E Primary School we value the importance of mathematics in providing foundations for understanding the world, by developing children's ability to calculate, reason, investigate and solve problems. Mathematics enables children to understand, find and appreciate patterns and relationships in number , measurement and shape. Mathematics encourages children to think creatively and systematically, communicate in a variety of ways and develop a genuine sense of curiosity and wonder.

We aim to:-

1) Promote and develop a positive attitude to mathematics in which children will be able to succeed to their full potential.

2) Develop a fluency and confidence in the fundamentals of maths including through varied and frequent practice with increasing complexity over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge accurately and rapidly.

3) Encourage children to reason mathematically by following a line of enquiry, suggesting relationships and generalisations and developing an argument, justification or proof using mathematical language.

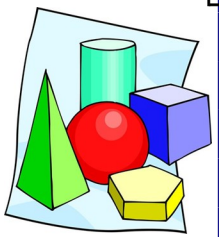
4) Develop problem solving skills by applying mathematics to a variety of problems with increasing sophistication, encouraging logical and systematic thinking.

5) Use accurately and confidently a range of methods and strategies for calculation, mental and written with increasing efficiently.

6) Develop an understanding of the ways in which information is gathered and presented.

7) Encourage children to explore features of geometry and develop measuring skills in a range of contexts.

We will:



- Introduce, build on and extend concepts and methods from concrete physical examples, through to visually rich models, then into abstract symbolic form.
- Provide opportunities for real context and application of maths, linked with other curriculum areas.

Curriculum

In both KS1 and KS2 mathematics is broadly divided into 8 main components:

number and place value; addition and subtraction; measurement; geometry- shape; geometry- position and direction; and statistics. Extra units on ratio and algebra are included in the Year 6 curriculum.

Early Years Foundation Stage

In the F.S.U we foster the children's natural curiosity about mathematics in the two key areas of number and shape, space and measures. We lay good foundations for future learning by immersing the children in a mathematically rich environment where the children are encouraged to set and solve their own real life problems. Counting is a significant aspect of children's early understanding of number and as such is given prominence within our curriculum. We encourage our children to become confident mathematicians who are willing to "have a go" as they develop their understanding and "number sense" through carefully planned adult led play activities as well as during their independent learning.