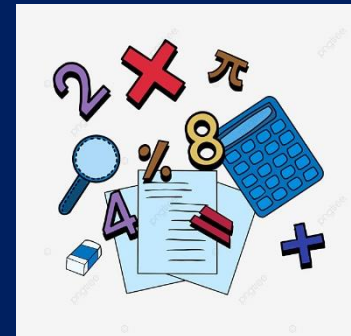


Characteristics: We are Mathematicians!

Maths



At Orchard Primary School, we value the power of maths in teaching our children to be great thinkers! Mathematics is an area, which leads to a greater understanding of the world around us, providing a precise means of communication using numbers, symbols and shapes. It is a powerful universal language, used to explain, predict and represent events and tackle problems in everyday life. Through their growing knowledge and understanding, children learn to appreciate that mathematics is a very effective tool to strengthen learning across the curriculum range, to prepare them for the challenges of everyday life, whilst maintaining a fascination of its own.

Mathematics is an interconnected subject in which pupils need to be able to move fluently between mathematical ideas. The programmes of study are, by necessity, organised into distinct areas, but pupils will make rich connections across mathematical ideas to develop fluency, mathematical reasoning and competence in solving increasingly sophisticated problems. They will also apply their mathematical knowledge to science and other subjects. Mathematics is becoming an increasingly important factor in a variety of industries and we therefore need to ensure our children are well prepared for the future.

At Orchard, we are mathematicians. We can....

- recall known number facts quickly and apply fluently in the different aspects of mathematics
- reason mathematically by following a line of enquiry and develop an argument
- justify or prove our thinking using mathematical language
- solve problems by applying their mathematics to a variety of challenges
- persevere in seeking solutions to problems
- apply mathematical knowledge and understanding to a range of contexts
- begin to understand how mathematics is an integral part of daily life

Learning Opportunities For Key Stage 1	Learning Opportunities For Key Stage 2
<p>Pupils will begin to grow their knowledge and skills through the concrete, pictorial and abstract approach to learning concepts with opportunities to develop fluency, problem solving and reasoning through:</p> <ul style="list-style-type: none"> • Number and place value • Addition and Subtraction • Multiplication and Addition • Fractions • Measurement • Geometry • Statistics 	<p>Pupils will widen and build upon existing conceptual knowledge and skills with opportunities to use known facts fluently and apply to problem solving and reasoning through:</p> <ul style="list-style-type: none"> • Number and place value • Addition and Subtraction • Multiplication and Addition • Fractions (including decimals and percentages) • Measurement • Geometry • Statistics • Ratio and Proportion • Algebra