



<p>What do we love about our subject?</p> <p>The aim of mathematics at Fairfield is to encourage all children to see that maths is a subject they enjoy and can achieve in.</p> <p>Through learning we aim to show the children that maths is an essential part of everyday life and to relate the topics they are learning to real life whenever possible. This will help to ensure that the children see the relevance of what they are learning and take their learnt skills with them into their futures.</p> <p>Being able to use maths skills in everyday settings is not just important for work, but for our emotional, social and physical well being as well, which in turn leads to a higher level of understanding of the world around us and so allows for us to develop as people too.</p>	<p>How do we want pupils to talk about our subject?</p> <p>We want our children to be excited and curious about maths and to ask questions, leading to a greater understanding of the subject.</p> <p>By delivering thought provoking questions and tasks, that require problem solving and reasoning, they are being challenged to deepen their mathematical understanding and develop their resilience, determination and curiosity, so allowing them to make mathematical connections within the subject and therefore become more independent learners.</p>
<p>What are some of the big ideas in our subject?</p> <p>The national Curriculum for mathematics aims to ensure that all pupils:</p> <ul style="list-style-type: none"> • become fluent in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately • reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language • can solve problems by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions. 	<p>How is our subject taught and organised so learning is retained in the long-term memory?</p> <p>Mathematics is taught as a discrete subject so that the value and the strengths of the subject can be made clear.</p> <p>The subject is interconnected and therefore pupils need to be able to move fluently between representations of mathematical ideas. The programmes of study are, by necessity, organised into apparently distinct domains, but pupils should make rich connections across mathematical ideas to develop fluency, mathematical reasoning and competence in solving increasingly sophisticated problems.</p> <p>All children have access to a daily Mathematics lesson. This lesson may vary in length but will usually last for 45-50 minutes in Key Stage One and 50-60 minutes at Key Stage Two.</p> <p>Children in Foundation Stage will have daily maths sessions which will last for up to 20 minutes by the summer term.</p> <p>Maths will also be used wherever possible in other subjects so that the children can develop and apply their mathematical skills.</p>
<p>How do we enrich our subject?</p> <p>Mathematics is enriched through:</p> <ul style="list-style-type: none"> • Math's clubs • Parents maths mornings • Money enterprise group • Visits to universities • Visits from puzzle/problem solving companies 	<p>What do we want pupils to leave Fairfield being able to do?</p> <p>On leaving Fairfield, we want children to be confident mathematicians in all of the fundamentals of the mathematics, who can see the importance of the subject and understand how it is relevant in all aspects of everyday life. We want the children to be able to take their learnt skills with them into their futures, providing them with a sound basis for a better a future and gainful employment.</p>