



Curriculum Statement for Computing

Mission statement:
Walking hand in hand with our friend Jesus

Intent	Implementation	Impact
<p>At St Mary and St Michael Catholic Primary School, we aim to provide a relevant, challenging and enjoyable computing curriculum that helps our pupils to participate in the rapidly changing world where work and leisure activities are increasingly transformed by technology.</p> <p>As well as our children becoming adept technology users and becoming responsible digital citizens, we want to encourage our children to understand that computing involves far more than just computers. We want them to understand that, through computational thinking, they can develop their creativity, become better at problem-solving through abstraction and become critical thinkers.</p> <p>By the time pupils leave primary school, we aim to develop pupils who:</p> <ul style="list-style-type: none"> ▪ Are responsible, confident and creative users of technology, who apply computational thinking beyond the Computing curriculum. ▪ Are digitally literate and are active participants in a digital world. ▪ Know how to stay safe whilst using technology and on the internet, minimising risk to themselves and others. ▪ Understand and follow agreed E-Safety rules, and know who to contact if they have concerns, including the use of report buttons. ▪ Have repeated practical experience writing computer programs in order to solve problems, including logic & algorithms. ▪ Ask and answer questions through collection, analysing, evaluating and presenting data and information. ▪ Understand how digital networks work and the services they provide. ▪ Use search options effectively, understanding the need to evaluate the relevance of content. 	<p>Computing is taught through a combination of discrete lessons as well as being embedded across the curriculum. Previously taught skills may also be applied as part of literacy, numeracy, RE, science and topic lessons which allows children to use computing to enhance their learning.</p> <p>The majority of our computing learning comes in the form of discrete computing lessons, following the 'Teach Computing' scheme of work. This approach means that children experience a progression in skills built upon year after year. Lessons are planned to meet the needs of all pupils and also to ensure that all of our pupils can achieve all of the objectives outlined in the National Curriculum.</p> <p>E-Safety is a key part of the computing curriculum. Pupils and staff are aware that 'every day is a safer internet day' and opportunities are used through discrete computing lessons, across the curriculum and throughout the school day to embed a clear understanding of staying safe online.</p>	<p>Our curriculum is planned to help our students expand on their knowledge and skills within the computing curriculum, and demonstrate steady progression over time. Where children are able to keep up with the objectives outlined in their year group's plans, they are deemed to be making expected or above expected progress. We also rely on a variety of other methods to measure the success of our computing curriculum:</p> <ul style="list-style-type: none"> • Children understand the three different branches of computing – computer science, information technology (IT) and digital literacy – and have an understand of the differences between all three. • Children can utilise the underlying principles of computer science, including abstraction, logic, algorithms and data representation in a wide array of different applications. • Children can make use of technology to come up with solutions for problems they face in day-to-day life. • By reflecting on the standards we are achieving against the outcomes outlined in our scheme of work. • Children can responsibly and competently utilise a variety of information and communication technology for a range of purposes.