

Through our ICT curriculum, pupils are given the opportunities to...

Our school and curriculum vision are built around: Be Curious, Be Confident, Be Creative and 3 key drivers of diversity and equality, ambition and resilience.

Be Curious	Be Confident	Be Creative
<p>In ICT lessons, pupils have many opportunities to develop their curiosity. Using software to build algorithms, they can wonder what will happen if a sequence of coding blocks is changed. They can see how everyday objects such as traffic lights or technical toys are developed with the use of simulation software. They learn how the internet and WWW work and how to search for information giving thought to reliability and online safety. Pupils can question how the information appears on the screen when they are introduced to the language of computing.</p>	<p>In ICT lessons, pupils build their confidence by trial and error. As they develop skills across the ICT curriculum, they are encouraged to find opportunities to improve and change their work instantly. When developing algorithms, they learn how to look for problems or 'bugs'. When presenting their work, they learn to edit until they are confident that the finished piece will be just how they had anticipated. Pupils learn how to save and retrieve work independently.</p>	<p>In ICT lessons, pupils can develop their design ideas through the different strands of the curriculum. They have opportunities to create posters or leaflets that link to their curriculum enrichment topics. Pupils can develop their own presentation style, through the use of publishing tools. They design and develop games using sprites and backgrounds using Scratch. They have opportunities to use online resources to produce art in an abstract style and to discover the work of a variety of artists. Using software such as MSExcel, pupils can develop their own formulas to build spreadsheets and to present mathematical information.</p>

Drivers		
Diversity and Equality	Ambition	Resilient Learners
<p>Within lessons, pupils will be able to access materials or modelled examples to support tasks, or to understand how a final process should look. Tasks will be carried out at their pace allowing extra time for support, either from a peer, support staff or adult presenting the lesson. Through the use of displays, the important part played by both men and women in the development of the technology we use today, are shared and celebrated.</p>	<p>Opportunities to repeat the use of software within the programme of study, will allow children to build on knowledge and skills. They will be encouraged to develop their understanding of how technology can play a part in their lives and how they can aspire to be a creator not just a user of apps, software and online content. The development of digital Leaders will allow confident pupils to support peers and promote ICT/Computing/E-safety within the school community.</p>	<p>Through all activities in ICT, children will be reminded that making mistakes is a positive way of developing understanding. They will be encouraged to not just accept their first effort to present their work, but encouraged to try a range of designs, styles or publishing software. Through coding, pupils will look for errors to understand why something didn't work and to take steps to debug or start again. Understanding how to stay safe online through special E-Safety days and through ongoing reminders within lessons, pupils will develop a confident approach to using the Internet.</p>

Key Concepts ICT		
Innovation and creativity	Algorithms	Responsible users of technology
<p>To be able to problem solve, detect and correct errors, understanding how digital systems work.</p>	<p>To be able to use algorithms to design and write programs.</p>	<p>To be a competent and safe user of technology.</p>

End Point

By the end of year 6 children will have had the opportunity to apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation, through repeated practical experience of writing computer programs in order to solve such problems. They will be able to demonstrate that they are aware of how to be responsible, competent, confident and creative users of information and communication technology