



ICT Curriculum Statement

'A high-quality computing education equips pupils to use computational thinking and creativity to understand and change the world. Computing ensures that pupils become digitally literate - able to use, and express themselves and develop their ideas through, information and communication technology - at a level suitable for the future workplace and as active participants in a digital world.' National Curriculum.

At St Clare's Catholic Primary School we are committed to providing our pupils with rich and varied computing experiences. We want every child to be happy and enthusiastic learners of ICT and to be eager to achieve their very best. ICT is an invaluable life skill in the digital world in which we now all live and at St Clare's we aim to prepare our learners for their future by giving them the opportunities to gain knowledge and develop skills that will equip them for an ever changing digital world. Knowledge and understanding of ICT is of increasing importance for children's future both at home and for employment.

Our ICT curriculum focuses on the areas of programming, understanding technology, keeping ourselves safe when using technology and using data handling and multimedia software.

Intent

The national curriculum for computing aims to ensure that all pupils can:

- Understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation
- Analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems
- Evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems
- Be responsible, competent, confident and creative users of information and communication technology.

Technology is everywhere and will play a pivotal part in students' lives. Therefore, we want to model and educate our pupils on how to use technology positively, responsibly and safely. We want our pupils to understand that there is always a choice when using technology and as a

school we utilise technology to model positive use. We recognise that many of the negative issues associated with technology and especially incorrect use of social media, can be best prevented through education and intervention at an early age. We recognise that technology can allow pupils to share their learning in creative ways. We also understand the accessibility opportunities technology can provide for our pupils. We encourage staff to try and embed computing across the whole curriculum to make learning creative and accessible. We want our pupils to be fluent with a range of tools to best express their understanding and hope by Upper Key Stage 2, children have the independence and confidence to choose the best tool to fulfil the task and challenge set by teachers.

Implementation

Our ICT computing curriculum is delivered in two ways. The first is through delivering lessons in which pupils are taught new skills as discrete ICT lessons. Secondly pupils are given a wide range of opportunities to link these skills across the whole curriculum so that they can apply the skills learned and develop them across a range of subjects. This approach will develop pupil's computing skills and enable them to see the purpose and need for them.

In every year group pupils are taught skill under the areas of:

- Computer Programming
- Technology
- Internet Safety
- Data handling and multimedia

These skills are progressive and pupils build up their knowledge and skills as they journey through the school, referring to and building upon skills learned in previous years. Please see our school computing progression document and software progression document to see how these skills are built upon in each year group.

Internet Safety is taught as a whole school project on Internet Safety Day each year where pupils participate in activities all about keeping themselves safe online. Again these skills are progressive throughout the school and are suited to the age range of the children, discussing safety at the appropriate levels for pupils age ranges and exposure to technology. This learning is consistently referred to and reinforced throughout the year to help pupils understand how to keep themselves safe online at all times.

Impact

The implementation of this curriculum ensures that when pupils leave St Clare's, they are competent and safe users of ICT with an understanding of how technology works. Our pupils will be equipped to apply their skills in Computing to different subjects to allow them to be creative, to express themselves and to share their understanding. During their time in St Clare's children will become confident in their use of a range of ICT so that they have a solid knowledge base that can continued to be built upon and applied in different ways which is vital in the ever changing digital world they live.