



ICT

Intent

It is our intent at St Andrew's Primary School to equip all our children with a high-quality education in computing to enable them to find, explore, analyse, exchange and present information to allow them access to a constantly changing and expanding digital world. By implementing a full and diverse curriculum, it is our intent for children to feel confident in their own abilities to use computing effectively and armour them with the knowledge to use computing safely. Computers and technology are such a part of everyday life that our children would be at a disadvantage should they not be exposed to a thorough and robust Computing curriculum.

Implementation

In Key Stage 1, the children will learn to understand what algorithms are, how they are implemented as programs on digital devices and that programs execute by following precise and unambiguous instructions. They will be taught how to create and debug simple programs and use logical reasoning to predict the behaviour of simple programs. They will be shown how to use a range of technology purposefully to create, organise, store, manipulate and retrieve digital content as well as recognise common uses of information technology beyond school. They will be taught to use technology safely and respectfully, keeping personal information private and identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies. Each of these skills will be taught through exciting half termly units.

In Key Stage 2 the children will design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. They will use sequence, selection, and repetition in programs, use logical reasoning to explain how some simple algorithms work and correct errors in algorithms and programs. Children will be taught to understand computer networks, including the internet, and the opportunities they offer for communication and collaboration. They will use internet search technologies effectively, learn to appreciate how results are selected and ranked, and be discerning in evaluating digital content. Children will be taught to select, use and combine a variety of software (including internet services) on a range of digital devices to create a range of programs, systems and content that accomplish given goals. They will use technology safely, respectfully and responsibly, recognise acceptable/unacceptable behaviour and identify a range of ways to report concerns about content and contact.

Even our children in Early Years provision will be exposed to the understanding of internet safety as they explore the world around them and how technology is an everyday part of their learning and understanding of the world.

Impact

After the implementation of this robust computing curriculum, children at St Andrew's will be digitally literate and able to join the rest of the world on its digital platform. They will be equipped, not only with the skills and knowledge to use technology effectively and for their own benefit, but more importantly – safely. The biggest impact we want on our children is that they understand the consequences of using the internet and that they are also aware of how to keep themselves safe online.

As children become more confident in their abilities in Computing, they will become more independent and key life skills such as problem-solving, logical thinking and self-evaluation become second nature.

At St Andrew's CE Primary School, we are committed to creating life-long learners who will be equipped with the knowledge, skills and drive to contribute positively to an ever-changing world.