

Computing – Intent, Implementation and Impact

**“We’re changing the world with technology” –
Bill Gates**

Computing – Intent

At Thwaites School, we believe a high-quality computing education equips all children with the skills and knowledge in computational thinking and creativity to help them to understand the world that they live in and be able to be ambitious, successful young people. Computing is a significant part of everyone’s lives and we believe that children should be at the forefront of new technology to complement and enhance their learning and experiences in a broad and balanced way. Computing has strong links to a variety of other subjects such as mathematics, science, design and technology and therefore we believe that, as an essential part of the curriculum, it is also integrated into all areas of learning, using a range of hardware, software and opportunities. We strive to provide a relevant, progressive and enjoyable curriculum for all pupils, as well as using it as a tool to enhance learning throughout the wider curriculum. Computing as a stand-alone subject has a number of key components; computer science, information technology and digital literacy, each of which we aim to teach and fully instil the value of amongst our pupils. We also firmly believe the importance of delivering a high-quality E-Safety curriculum, alongside the core values of these three stands. E-safety is embedded throughout the computing curriculum and supports and consolidates the strong presence of E-safety within our PSHE curriculum. As technology develops, so does the need for a better understanding of how to use it in a responsible manner. The education of E-safety is therefore essential, to ensure children are equipped with the skills to recognise risks online, to be critically aware of the materials and content they access online, along with guidance on how to accurately validate information accessed via the internet.

Computing – Implementation

To ensure high standards of teaching and learning in computing, we implement a curriculum that is progressive throughout the whole school. Our implementation of the computing curriculum is in line with 2014 Primary National Curriculum requirements for KS1 and KS2 and the Foundation Stage Curriculum in England. This provides a broad framework and outlines the knowledge and skills taught in each key stage. Our curriculum has been designed to ensure consistency and progression throughout the children’s time at Thwaites School. Children at our school learn year group appropriate knowledge and skills and build on these from early years through to Year 6. Computing teaching is practical and engaging and a variety of teaching approaches and activities are provided based on teacher judgement and pupil ability. Teachers and pupils are aware of the importance of health and safety and pupils are always supervised when using technology and accessing the internet. Our school promotes ‘think before you click’ to all children to ensure they make conscious

decisions about what they access online, in line with their e-safety learning. Computing and safeguarding go hand in hand and we provide a dedicated focus on internet safety inside and outside of the classroom. Additional to all pupils studying online safety through their computing lessons, we also take part in National Safer Internet Day in February.

Computing – Impact

Our Computing Curriculum is high quality, well thought out and is planned to demonstrate progression and build on and embed current skills. Children become increasingly proficient on school equipment and have good, transferable knowledge and understanding of online safety which is transferred into their own lives. Children build on the knowledge and skills from previous learning and will have a secure and comprehensive knowledge of how technology works in the world around them. They develop their understanding of how to deal with online situations safely and become confident global citizens.

