Computing

At Millfields we aim to equip pupils with the necessary knowledge, skills and understanding to become digitally literate citizens who are confident, safe and responsible users of technology. The Computing education we offer prepares our children for the digital world, helping them develop computational thinking skills, and exposing them to a range of creative and exciting computing activities that stimulate their curiosity and interest in the subject.

We aim to widen children's vocabulary both in terms of technical language but also descriptive language through their experiences in Computing. Subject specific vocabulary for each year group is outlined in our progression document and this is regularly modelled by teachers within their lessons. Our teaching is inclusive and provides support to all pupils, including those with SEND, EAL and those who are disadvantaged.

Here at Millfields, Computing is taught as a discrete subject and also used to support learning across other subjects. Our Computing curriculum is shaped by the National Curriculum and ensures progression of knowledge, skills and understanding across key stages. We follow an innovative progression framework from the National Centre for Computing Education called the 'Teach Computing Curriculum.' This has been thoroughly tested by teachers, created by experts, and grounded in the latest research.

The curriculum strands are Computer Science; algorithms and programming, data and systems, Information Technology; digital artefacts and computing contexts and Digital Literacy; mechanics, searching/selecting information and Online Safety. Spaced repetition within the curriculum allows pupils to develop their recall of knowledge and ensures that each year group works on at least one aspect of each the three areas of Computing.

We use high-quality resources, including hardware, software, and online tools, that are age-appropriate, engaging, and accessible to all pupils, regardless of their needs or abilities. Our robust online safety education covers a range of issues related to the safe use of technology, including social media, cyberbullying, grooming, and online radicalisation.

 As a result, our children leave us as responsible, competent, confident, and creative users of information and communication technology. Children are prepared for the next stage of their Computing learning and can further apply these computing skills.