



The Willow Tree Academy

- Computing Statement of Intent -



Intent

Through our computing curriculum at the Willow Tree Academy we aim to give our pupils the life-skills that will enable them to thrive while using technology in a safe responsible way. We want children to become autonomous, independent users of technology and to be able to think creatively alongside it. By the time they leave, children will have gained key knowledge and skills in the three main areas of the computing curriculum: computer science, information technology and digital literacy in order for them to develop their own capability and confidence to use I.C.T as a tool for the future.

The 2014 National Curriculum for Computing aims to ensure that all children:

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

Implementation

Staff at Willow Tree Academy is committed to teaching a curriculum that engages, enriches and develops skills that can be used in daily life. Staff actively involves students in their own learning, teach pupils to develop a conceptual framework as well as developing problem solving skills.

Our whole school approach to the teaching and learning of computing, and the use of computing across the curriculum involves the following:

- The Willow Tree Academy Computing Scheme of Learning provides the key objectives required for each area of the curriculum with clear progression shown between year groups.

- Planning using a range of software, hardware and applications enable pupils to develop a wide range of skills through the key stages.
- Children are encouraged to explore, use their initiative, be independent, ask questions when developing their understanding of computer science and the computing curriculum.
- Teachers plan to use computing as part of their topic based learning. This enables the learning to be cross curricular for many of the sessions.
- Whole school and academy initiatives are provided to enrich the curriculum and provide outcomes and goals for children to work towards.
- Computing and technology are used to support the whole curriculum. Technology will often be used to support learning in literacy, maths, science and wider curriculum areas.
- A rich, diverse computing curriculum that provides pupils with a wealth of experiences through both key stages.
- A rich and rigorous e-safety curriculum that enables children to be safe when using technology. Alongside our curriculum, our Willow Tree Warriors support pupils by providing information and supporting their needs with computing and safety issues.

Impact

Our approach at Willow Tree Academy is to provide and deliver a high-quality computing curriculum, which provides children with the foundations for understanding computing in the real world. We provide opportunities for children to implement technology into situations which can benefit their learning.

Technology is used if it can impact the pupil's learning. We take pride in knowing our children work collaboratively and practically to investigate and experiment in computing. In doing so, children are able to explain the processes they have taken and be able to reason and articulate the choices they have made.

The implementation of this curriculum ensures that when pupils leave Willow Tree Academy, they are competent and safe users of ICT with an understanding of how technology works. Children will have developed skills to express themselves and be creative in using digital media and be equipped to apply their skills in Computing to different challenges going forward.