Willoughby Primary School

Computing Vision and Intent Statement

As a school we aim to:

Deliver an engaging and inspirational curriculum that prepares children for the future, develops their **curiosity** and deepens their **understanding** of the world around them. We foster each child's **independence** to nurture character development, health and well-being.

In this subject our vision is:

In line with the National Curriculum for Computing, our aim is to provide a high-quality, inclusive computing education which allows children to use software and computational thinking to understand and thrive in an ever-changing technological world. Children's curiosity is nurtured through the curriculum, it teaches children key knowledge about how computers and computer systems work, and how they are designed and programmed. Learners will have the opportunity to gain an understanding of computational systems of all kinds, whether or not they include computers, by immersing themselves with a variety of software and hardware, all underpinned by the NCCE's 12 principles of Computing Pedagogy (Appendix 1).

Our children say:

They like computing as its fun and enjoyable. It's a useful thing to do and know how to do. They like typing up and publishing work on a computer. They do research on the i-pads and laptops in other subjects like Science, Geography and History. Both KS1 and KS2 say that they use I-pads, laptops, and bee bots.

Learning intent:

By the time pupils leave Willoughby Primary School, they will have gained key knowledge and skills in the four main areas of computing:
Computer science (programming and understanding how digital systems work),
Computational thinking (solving problems through decomposition, pattern recognition, abstraction and algorithms)
Information technology (using computer systems to store, retrieve and send information)
Digital literacy (evaluating digital content and using technology safely and respectfully).
The objectives within each strand support the development of learning across the key stages, ensuring a solid grounding for love of learning and beyond.
At Willoughby we follow the scheme of work for computing from the NCCE Teach Computing website, which ensures relevant skills are taught throughout the year. Children focus on a topic each half term where they get to explore different software, practise and develop their skills in using it and then create their work using it. For topics that focus on understanding hardware, such as computing systems and networks, learning is planned to engagingly present this information and for children to creatively present their understandings.