

# COMPUTING AT WILLAND SCHOOL

## INTENT

At Willand School, we believe computing is an important part of children's development throughout school, right from an early age. In a society where technologies and trends are rapidly evolving, it is important that children's knowledge and skills are flexible and that they have the tools to apply to new and ever changing contexts.

We are intent on delivering a curriculum that:

- is of a high quality;
- meets the requirements of the National Curriculum in computing;
- equips pupils to use computational thinking and creativity to understand and change the world;
- is progressive and builds continually on prior knowledge and experience;
- prepares pupils to live safely and make healthy, positive choices in an increasingly digital global society;
- is relevant, challenging and enjoyable;
- enables pupils to become digitally literate: able to use, and express themselves and develop their ideas through, information and communication technology;
- capitalises on the links with mathematics, science, design and technology;
- uses technology as a tool to enhance learning throughout the curriculum;
- is responsive to changes and advances in technology.

## IMPLEMENTATION

The curriculum is led and overseen by the computing and online safety co-ordinator. A regular programme of monitoring, evaluation and review contributes to the ongoing commitment to evolve and improve further.

The National Curriculum provides the basis for our computing curriculum, which is then tailored to meet the learning and developmental needs of the children in our school.

There is a clear and effective scheme of work, laid out in the long term plan, which provides full coverage in line with the National Curriculum. Teaching and learning facilitates continuity and progression across all key stages within the strands of online safety, digital literacy, information technology and computer science.

A varied approach is used which includes whole class teaching, group work and practical activities. A range of strategies - including differentiation, extension activities and additional classroom support - are used to support inclusion.

Computing is taught as a discrete subject and also integrated into other curricular areas where possible. There is a range of resources which aid the acquisition of skills and knowledge. This includes

laptops, tablets, programmable hardware and software appropriate to the requirements of the scheme of work.

ICT skills are taught explicitly and also practised and consolidated through their integration into other curricular areas.

Regular assessment takes place, using the Somerset eLIM breakdown of end of year expectations. This is recorded via Insight Tracking at least termly.

Children also have the opportunity to explore and respond to key online safety issues - including but not limited to – digital communication, cyber bullying, security, plagiarism and appropriate use of social media.

Parents are provided with regular online safety updates. They are informed when issues arise and further information / support provided if required.

## IMPACT

By the end of each key stage, pupils are expected to know, apply and understand the matters, skills and processes specified in the relevant programme of study.

Through computing provision at Willand School, pupils will:

- be confident in the knowledge and application of computer science, including abstraction, logic, algorithms and data representation;
- analyse practical problems in computational terms, writing computer programs in order to solve such problems;
- have a secure and comprehensive knowledge of the implications of technology and digital systems;
- evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems;
- have a strong skill set in digital literacy, information technology and computer science and be able to apply those skills widely;
- be responsible, competent, confident and creative users of information and communication technology;
- be equipped to make healthy, safe and positive choices when online, applying the British values of democracy, tolerance, mutual respect, rule of law and liberty;
- use these skills to accomplish a wide variety of goals, both at home and in school.

Our computing and online safety lead is: Pauline Maynard

Our computing and online safety governors are: Darren White and Simon Talbot