

I.C.T Intent, implementation and impact.

Intent: How we have planned our I.C.T. curriculum

At St Nicholas and St Laurence Primary School, we understand the value that technology plays not only in supporting the curriculum but also in the day-to-day life of our school and our community. Our aims are to fulfil the requirements of the National Curriculum for Computing whilst also providing enhanced collaborative learning opportunities, engagement in rich content and supporting pupil's conceptual understanding of new concepts which support the needs of all our pupils.

"A high-quality computing education equips pupils to use computational thinking and creativity to understand and change the world...core of computing is computer science, in which pupils are taught the principles of information and computation, how digital systems work, and how to put this knowledge to use through programming. Building on this knowledge and understanding, pupils are equipped to use information technology to create programs, systems and a range of content." National Curriculum

Our Computing curriculum aims to develop the heart and mind of every child. Computing teaching at has links with mathematics, science and design and technology and our aim is to provide a broad and balanced curriculum whilst ensuring that pupils become digitally literate and digitally resilient. Technology is ever evolving and we aim to develop pupils who can use and express themselves, develop their ideas through information and communication technology at a suitable level for the future workplace and as active participants in a digital world.

The aims of our Computing curriculum are to develop pupils who:

- Know how to keep themselves safe whilst using technology and on the internet and be able to minimise risk to themselves and others.
- Are responsible, competent, confident and creative users of information and communication technology.
- Become responsible, respectful and competent users of data, information and communication technology.
- Can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems.
- Can analyse problems in computational terms, and have repeated practical experience writing computer programs in order to solve such problems.
- Can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation.
- Become digitally literate and are active participants in a digital world.
- Are equipped with the capability to use technology throughout their lives.
- Have a 'can do' attitude when engaging with technology and its associated resources.
- Utilise computational thinking beyond the Computing curriculum.
- Understand the E-Safety messages can keep them safe online.
- Know who to contact if they have concerns.
- Apply their learning in a range of contexts, e.g. at school and at home.

Implementation: How we teach our I.C.T curriculum

We take online safety extremely seriously and a clear focus within the school is given to this matter. We ensure that it is the first unit taught each year. This is to ensure all pupils are aware of how to use technology safely both in and out of school and who to approach if they have any worries or concerns about anything they have

seen online. Online safety is addressed both in lessons and in whole-school assemblies, allowing us to promote healthy attitudes to online activities at an age-appropriate level. In lessons, computing skills are taught in a cross-curricular way wherever possible. However, to help us deliver appropriate and challenging provision, some content may be delivered in discrete lessons to maximise the pupils' successes when using the necessary software. Our computing curriculum includes the use of the 'Purple Mash' materials and covers three main strands: digital literacy; computer science; e-safety and the use of the internet. When covering this content, the skills needed to present information in different formats (using the Microsoft software, for example) will be taught, as well as other skills such as programming, decoding and debugging as well as how to navigate a web page. These skills will then be enhanced further, allowing pupils to apply them when designing and creating their own digital projects.

Impact: How we assess the progress our pupils make in I.C.T

Computing assessment is ongoing throughout the relevant units to inform teachers with their planning lesson activities and differentiation. Summative assessment is completed at the end of each unit where computing objectives have been covered. Work done through Purple Mash is saved electronically in the children's personal document folders.