Together Everyone Achieves More

Through…..Loving learning, loving each other and loving life itself

AGAPE: The Good Samaritan (Luke 10: 25-37)

North Curry C of E Primary School
Computing Intent, Implementation and Impact Statement

Intent

We aim to give pupils the power to make the best use of technology in their own lives and inspire them to engage fully with technological and creative experiences in a way that equips them for their digital future, both in the workplace and at home. We intend to give pupils awareness of the responsibilities associated with technology in order that they become respectful, safe and responsible users of technology. We want the next generation to acknowledge the place of technology in their lives while not being bound by it.

Staff are clear in their intent to embed a balanced computing curriculum in order that pupils acquire a broad and deep knowledge of not only our key strands of programming, technology in our lives, multimedia and handling data, but also to experience and apply their understanding of technology in other areas of the curriculum.

We strive to provide a relevant, progressive and enjoyable curriculum for all pupils, as well as using it for a tool to enhance learning throughout the wider curriculum.

Our curriculum promotes spiritual development by encouraging the pupils to consider the awe of human ingenuity and wonder at the power of the digital age, including its abilities to create connections between each other.

Computing as a stand-alone subject has a number of key components, each of which we aim to teach and fully instil the value of amongst our pupils. These are:

Programming – Pupils are taught the principles of information and computation, how digital systems work, and how to put this knowledge to use through programming.

Multimedia and handling data – Pupils are equipped to purposefully create programs, systems and a range of content in order to develop products and solutions. They will be able to collect, analyse, evaluate and present data and information.

Digital Literacy – Pupils are taught to use, access and express oneself through digital technology, including a critical understanding of technology's impact on the individual and society at a level suitable for the future and as active participants in a digital world.

We also firmly believe in the importance of delivering a high-quality Online Safety curriculum, alongside the core values of these three stands. Online safety is embedded throughout the computing curriculum and supports and consolidates the work we do in PSHE, as well as enabling the pupils to use the internet safely throughout the rest of the curriculum.

As technology develops, so does the need for a better understanding of how to use it in a responsible manner. The education of Online Safety is therefore essential to ensure pupils are equipped with the skills to recognise risks online and for them to be critically aware of the materials and content they access online.

Implementation

The delivery of Computing and Online Safety at North Curry Primary School is planned in line with the National Curriculum. We use the Teach Computing curriculum to support our delivery of Computing and we use ELIM Educational Technology to support our delivery of Online Safety. This allows for clear progression of skills as the pupils move through the year groups. Computing lessons are carried out once a week and discrete Online Safety lessons are completed half-termly. Across the school, we take a holistic approach to online safety and recognise that it can be referenced and discussed in many subjects across the curriculum. At the beginning of each year, the pupils contribute to Online Safety rules and sign an AUA at the beginning of each year.

These lessons are supplemented by computing assemblies, organised days such as Safer Internet Day and discussions on anti-bullying, with a focus on cyber bullying.

Through dedicated computing lessons, we enhance pupils' learning experiences by developing the attitudes and skills of a computational thinker for use both specifically in computing but also in their wider personal development. This includes skills such as pattern recognition and algorithm design while providing further opportunities for pupils to develop positive attitudes towards collaboration and perseverance.

Computing and Online Safety run through the entire curriculum and we now have a class set of laptops and ipads, which means that the pupils have access to technology when it is needed in other subjects. Examples include to create projects, carry out research or complete a comprehension quiz on Accelerated Reader.

We recognise the need to continually maintain, update and develop resources to ensure the effective delivery of the National Curriculum and support the use of technology throughout the school. This includes:

• Interactive whiteboards in every classroom to enhance and promote effective use of technology for learning.
• 15 laptops for pupil use within lessons & additional 'floating' laptops for use where needed.
• 15 iPads for pupil use in both discrete lessons and across the wider curriculum.
• 2 iPads as an additional resource to support teaching and learning.
• Subscription to online content such as TTRockstars and Accelerated Reader to promote learning in school and remotely through home access.

**In KS1 pupils are taught to*:*
- Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions
- Create and debug simple programs
- Use logical reasoning to predict the behaviour of simple programs
- Use technology purposefully to create, organise, store, manipulate and retrieve digital content
- Recognise common uses of information technology beyond school
- Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.

In KS2 pupils are taught to:

- Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.
- Use sequence, selection, and repetition in programs; work with variables and various forms of input and output
- Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
- Understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration
- Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
- Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information
- Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

Impact

Pupils enjoy and value computing; they understand and reflect upon technology in their own lives, including how it relates to their own wellbeing. When issues with technology arise, such as pupils experiencing inappropriate content online, they are proficient at reporting this to a trusted adult. Pupils engage fully with technological and creative experiences and their efficiency gives them the grounding to go on and thrive through secondary school and allows them potential career opportunities.

Pupils' progress in computing is monitored and evaluated through regular reviews of pupils' learning. Curriculum coverage is exemplified in accordance with our planned progression using the Teach Computing curriculum for Computing and Activebytes curriculum for Online Safety. High value is placed on pupil voice, which is gained through discussions with pupils, classroom learning walks and observations of pupils' learning.

Our pupils exhibit responsible digital citizenship, demonstrated by their awareness of online safety issues and their ability to engage with technology in a critical and informed manner. By fostering a love for technology and providing pupils with the necessary skills, we prepare them to be future leaders in the digital world.