What does computing look like at Great Doddington Primary School?

Intent

At Great Doddington we want to model and educate our pupils on how to use technology positively, responsibly and safely. We want our pupils to be masters of technology and believe it can provide; enhanced collaborative learning opportunities, better engagement of pupils, easier access to rich content and can support the needs of all our pupils. Our aim is to enthuse and equip children with the capability to use technology for the next stage of their education and beyond.

We recognise that technology can allow pupils to share their learning in creative ways. We also understand the accessibility opportunities technology can provide for our pupils.

Our knowledge rich curriculum has to be balanced with the opportunity for pupils to apply their knowledge creatively using technology, which in turn will help our pupils become skilful computer scientists. We encourage staff to try and embed computing across the whole curriculum to make learning creative and accessible.

Implementation

The teaching and implementation of Computing at Great Doddington is based on the Early Years Foundation Stage framework and the National Curriculum.

Foundation stage pupils will be taught:

- How to complete a simple programme on a computer
- To use ICT hardware to interact with age-appropriate software

Key Stage 1 pupils will be 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
- To create and debug simple programs
- To use logical reasoning to predict the behaviour of simple programs
- To use technology purposefully to create, organise, store, manipulate and retrieve digital content
- How to recognise common uses of information technology beyond school
- To 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.

Key Stage 2 pupils will be taught:

- How to design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
- To use sequence, selection, and repetition in programs; work with variables and various forms of input and output
- To use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
- To 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
- To use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
- How to 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
- To use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

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Impact

Finding the right balance with technology is the key to an effective education and a healthy life-style. We feel the way we implement computing at Great Doddington helps children realise the need for the right balance and one they can continue to build on throughout their lives. Children know how to keep themselves safe online.

Principles of learning in computing:

- To develop and promote an 'everyone can' attitude- for all children to succeed

- To frequently revisit learning

- To have high expectations for all pupils

- To prepare children for next steps in learning

- To develop confident learners

- To develop learners that are independent and resilient

- To develop the acquisition of oracy skills through the use of a broad vocabulary

- To develop their understanding and expand their vocabulary

- To support children to make connections in their learning with other subjects