

North Cerney C of E Primary Academy



Computing Curriculum Statement

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1. INTENT

All pupils at North Cerney C of E Primary School have the right to have rich, deep learning experiences that balance all the aspects of computing. With technology playing such a significant role in society today, we believe 'computational thinking' is a skill that children must be taught if they are to be able to participate effectively and safely in this digital world. A high-quality computing education equips pupils to use creativity to understand and change the world. Computing has deep links with mathematics, science, and design and technology, and provides insights into both natural and artificial systems. At North Cerney C of E Primary School, the core of computing is computing science in which pupils are introduced to a wide range of technology, including tablets and interactive whiteboards, allowing them to continually practice and improve the skills they learn. This ensures they become digitally literate so that they are able to express themselves and develop their ideas through information and computing technology - at a level suitable for the future workplace and as active participants in a digital world.

We teach a curriculum that enables children to become effective users of technology who can:

- understand and apply the essential principles and concepts of Computing Science, including logic, algorithms and data representation
- analyse problems in computational terms, and have repeating practical experience of writing computing programs in order to solve such problems
- evaluate and apply information technology analytically to solve problems
- communicate ideas well by utilising appliances and devices throughout all areas of the curriculum
- become digitally literate and are active participants in a digital world
- are equipped with the capability to use technology throughout their lives
- understand the importance of governance and legislation regarding how information is used, stored, created, retrieved, shared and manipulated
- Have a 'can do' attitude when engaging with technology and its associated resources
- understand and follow the SMART E-Safety rules
- understand the E-Safety messages can keep them safe online
- apply their learning in a range of contexts, e.g. at school and at home

Our Computing curriculum aims to develop the heart and mind of every child. 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.

2. IMPLEMENTATION

Teaching at North Cerney C of E Primary School is supported by a fully comprehensive computing scheme created by 'PurpleMash'. As part of this scheme teachers have access to a rich range of resources, including:

- a cycle of lessons for each subject, which carefully plan for progression and depth;
- all resources and programmes needed to deliver these lessons;
- a knowledge organiser which outlines knowledge all children must master within a unit;
- key vocabulary and linking definitions;
- challenging questions for pupils to apply their learning in a philosophical/open manner;
- cross-curricular activities and intervention tools;
- school and class virtual noticeboards and blogs to facilitate communication with the wider school community.

Children also experience ICT through the use of Espresso, which is used to resource lessons and provide home learning activities.

Our Computing progression model is broken down into three strands that make up the computing curriculum. These are Computer Science, Information Technology and Digital Literacy. Computer Science underlines the knowledge and skills relating to programming, coding, algorithms and computational thinking. Information Technology underlines the knowledge and skills relating to communication, multimedia and data representation and handling. Digital Literacy underlines the knowledge and skills relating to online safety and technology uses all of which are covered at North Cerney C of E Primary School whether combined or discreetly. Our Computing Progression Model is supplemented by the Purple Mash scheme of work which we follow from Year 1-6, ensuring consistency and progression throughout the school.

Pupils at North Cerney C of E Primary School are fully encouraged to engage with ICT and technology outside of school. Each teacher and pupil at North Cerney C of E Primary School has their own unique Purple Mash login and password. Computing work can be stored and saved using pupil log in details and homework or '2do's' can also be set for pupils to access and complete tasks at home that link with their current class learning.

3. IMPACT

Our Computing Curriculum is high quality, well thought out and is planned to demonstrate progression and build on and embed current skills. We focus on progression of knowledge and skills in the different computational components and alike other subjects discreet vocabulary progression also form part of the units of work.

We measure the impact of our curriculum through the following methods:

- Pupil discussions and interviewing the pupils about their learning (pupil voice).
- Governor monitoring
- Staff meetings with opportunities for dialogue between teachers.
- Photo evidence and images of the pupil's practical learning.
- A reflection on standards achieved against the planned outcomes.
- Learning walks and reflective staff feedback (teacher voice).