GREAT ECCLESTON COPP CHURCH OF ENGLAND PRIMARY SCHOOL

COMPUTING

Reviewed and Updated on 1st September 2019

Copp Cares

"Let us love, not in word, but in truth and action." (1 John 3:18)

Talk to me and I will listen, show me and I will remember,
Involve me and I will learn, encourage me and I will thrive.

Copp, the village school, where everyone is special and where God will help us grow.

Policy Statement

In its preparation due thought and consideration has been given to the National Curriculum requirements, skills, progression through the Key Stages, year groups and class structures within school.

Staff formulate their own curriculum units based on the skills document paying due care and attention to the new National Curriculum Attainment Targets for computing.

Working in such a way allows for individual styles and approaches to teaching and allows for some flexibility with use of resources and yearly coverage of the National Curriculum.

School is linked to the Internet via Lancashire Intranet. Access to the internet is filtered but children will only be allowed on the internet under supervision of an adult in school (see also Online Safety Policy). Under the prevent agenda this filtering ensures children are safe from terrorist and extremist material.

The Computing Policy is to be reviewed as necessary in light of the changing curriculum and new developments in technology.

The use of information and communication technology is an integral part of the national curriculum and is a key skill for everyday life. Computers, tablets, programmable robots, digital and video cameras are a few of the tools that can be used to acquire, organise, store, manipulate, interpret, communicate and present information. At Copp CE Primary School we recognise that pupils are entitled to quality hardware and software and a structured and progressive approach to the learning of the skills needed to enable them to use it effectively. The purpose of this policy is to state how the school intends to make this provision.

Aims

Our computing aims are to ensure that all pupils:
can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation.
can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems.
can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems.
are responsible, competent, confident and creative users of information and communication technology.

Objectives:

Early years

It is important in the foundation stage to give children a broad, play-based experience of ICT in a range of contexts, including outdoor play. ICT is not just about computers. Early years learning environments should feature ICT scenarios based on experience in the real world, such as in role play. Children gain confidence, control and language skills through opportunities to 'paint' on the whiteboard or programme a toy. Recording devices can support children to develop their communication skills. This is particular useful with children who have English as an additional language.

Key Stage 1

By the end of key stage 1 pupils should be taught to:

- Understand what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following a sequence of instructions
- Write and test simple programs
- Use logical reasoning to predict and computing the behaviour of simple programs
- Organise, store, manipulate and retrieve data in a range of digital formats
- Communicate safely and respectfully online, keeping personal information private, and recognise common uses of information technology beyond school.

Key Stage 2

By the end of key stage 2 pupils should be taught to:

- Design and write 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; generate appropriate inputs and predicted outputs to test programs
- Use logical reasoning to explain how a simple algorithm works 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
- Describe how internet search engines find and store data; use search engines effectively; be discerning in evaluating digital content; respect individuals and intellectual property; use technology responsibly, securely and safely

- Select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals, including collecting, analysing, evaluating and presenting data and information.

Resources and access

The school acknowledges the need to continually maintain, update and develop its resources and to make progress towards a consistent, compatible pc system by investing in resources that will effectively deliver the strands of the national curriculum and support the use of ICT and computing across the school. Teachers are required to inform the ICT and computing leader of any faults as soon as they are noticed. Resources if not classroom based are located in the ICT and computing suite. A service level agreement with entrust is currently in place to help support the coordinator to fulfil this role both in hardware & audio visual. ICT and computing network infrastructure and equipment has been sited so that:

- Every classroom from Reception to y6 has a PC connected to the school network and an interactive screen with sound and video facilities.
- There is an ICT and computing suite of 16 desktops.
- There are 45 iPads with internet access available to use in all classrooms.
- Each class from YR – Y6 has an allocated slot across the week for teaching of specific ICT and computing skills
- The ICT and computing suite is available for use throughout the school day as part of ICT and computing lessons and for cross curricular use.
- Pupils may use ICT and computing independently, in pairs, alongside a TA or in a group with a teacher.
- The school has an ICT and computing technician who is in school one day per month.
- A governor (Andrew Daniels) will be invited to take a particular interest in ICT and computing in the school.

Planning

As the school develops its resources and expertise to deliver the ICT and computing curriculum, modules will be planned in line with the national curriculum and will allow for clear progression. Modules will be designed to enable pupils to achieve stated objectives. Pupil progress towards these objectives will be recorded by teachers as part of their class recording system. Staff will follow medium term plans with objectives set out in the national curriculum and use the same format for their weekly planning sheet.

Inclusion

At Copp we plan to provide for all pupils to achieve, including boys and girls, higher achieving pupils, gifted and talented pupils, those with SEN, pupils with disabilities,

pupils from all social and cultural backgrounds, children who are in care and those subject to safeguarding, pupils from different ethnic groups and those from diverse linguistic backgrounds.

Health and safety

The school is aware of the health and safety issues involved in children's use of ICT and computing. All electrical appliances in school are tested accordingly. It is advised that staff should not bring their own electrical equipment in to school but if this is necessary, then the equipment must be pat tested before being used in school. This also applies to any equipment brought in to school by, for example, people running workshops, activities, etc. and it is the responsibility of the member of staff organising the workshop, etc. to advise those people. All staff should visually check electrical equipment before they use it and take any damaged equipment out of use. Damaged equipment should then be reported to the ICT technician, bursar or head teacher who will arrange for repair or disposal.

Security

- The ICT and computing technician will be responsible for regularly updating anti-virus software.
- Use of ICT and computing will be in line with the school's 'acceptable use policy'. All staff, volunteers and children must sign a copy of the schools AUP.
- Parents will be made aware of the 'acceptable use policy'.
- All pupils and parents will be aware of the school rules for responsible use of ICT and computing and the internet and will understand the consequence of any misuse.
- The agreed rules for safe and responsible use of ICT and computing and the internet will be displayed in all ICT and computing areas.