

# Ewyas Harold Primary School



## Curriculum Computing Policy

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Reviewed by	S Davies
Ratified by	FGB
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### **Intent:**

At Ewyas Harold Primary School, we believe that every child should have the right to a curriculum that champions excellence; supporting pupils in achieving to the very best of their abilities. We understand and recognise the immense value technology plays not only in supporting the Computing and whole school curriculum but overall in day-to-day life. We aim, therefore, to equip children with the skills to adapt to new technology and to give them confidence to use computing to further their learning and assist them in everyday life. In doing so, all pupils will have access to computing equipment and resources, according to their ability and age range.

We believe that technology can promote: enhanced collaborative learning opportunities; better engagement of pupils; easier access to rich content; independent learning; support conceptual understanding of new concepts and can support the needs of all our pupils.

### **Our aims:**

- To develop children's individual computing capability and understanding
- Provide an exciting, rich, relevant and challenging Computing curriculum for all pupils.
- Teach pupils to become responsible, respectful and competent users of data, information and communication technology.
- Equip children with the confidence and capability to use technology throughout their education, home and further work lives.
- Utilise computational thinking beyond the Computing curriculum.
- Give children access to a variety of high-quality hardware, software and resources.
- Equip pupils with skills, strategies and knowledge that will enable them and others to stay safe online. At the beginning of each term, children are reminded of the SMART acronym: S-Safe (keeping personal data safe) , M-Meeting can be dangerous, A-Accepting emails from untrustworthy sources can lead to problems, R- Reliable (people and information may not be reliable), T- Tell an adult if something or someone makes you feel uncomfortable.
- To stimulate interest in new technologies.
- Instil critical thinking, reflective learning and a 'can do' attitude for all our pupils, particularly when engaging with technology and its associated resources.
- Use technology imaginatively and creatively to inspire and engage all pupils.

### **Implementation:**

As a school, we have chosen the Purple Mash Computing Scheme of Work. The scheme of work supports our teachers in delivering fun and engaging lessons which help to raise standards and allow all pupils to achieve to their full potential. We are confident that the scheme of work provides us with a well sequenced and progressive curriculum which provides immense flexibility, strong cross-curricular links and integrates perfectly with the 2Simple Computing Assessment Tool. Furthermore, it gives excellent supporting material for less confident teachers.

The key concepts in computing we plan a progression for are:

- Computer Science
- Information Technology
- Digital Literacy

At Ewyas Harold Primary School, the computing curriculum incorporates cross curricular links and discrete computing skills. Computing should be taught as part of our creative curriculum, while still teaching the discrete skills required through discrete computing lessons. Children in Key Stage 1 and Key Stage 2 should all spend at least 1 hour per week studying computing. Children will spend additional time using computing to support other subjects.

### **Expectation in computing:**

At the end of Key Stage 1 children should:

- 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.
- 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 outcomes:

- 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 worldwide 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.
- Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

### **Health and Safety.**

Ewyas Harold Primary School takes all necessary measures to ensure both staff and pupils are aware of the importance of health and safety. Both staff and pupils are trained to handle electrical equipment correctly including how to power off and on. Pupils are reminded about the dangers of electricity and the danger signs to look out for. Adequate displays and warning signs are strategically placed around the school to reinforce health and safety. Food and drink should not be consumed near ICT equipment. Staff should ensure that the children are aware of the dangers of continuous use (e.g. Eye/Wrist strain). An adult must always supervise children when they are accessing information via the internet. Internet filtering is provided by Edutech.

At Ewyas Harold, Online safety (E-safety) has a high profile and all staff and pupils are made aware of the importance of online safety. We ensure this profile is maintained and that pupil needs are met by ensuring all pupils sign an acceptable use agreement and by embedding Online safety through the curriculum including the use of SMART.

### **Inclusion and equal opportunities:**

At Ewyas Harold Primary School, we aim to enable all children to achieve to their full potential. This includes children of all abilities, social and cultural backgrounds, those with SEND and EAL speakers. We place particular emphasis on the flexibility technology brings to allowing pupils to access learning opportunities, particularly pupils with SEN and disabilities. With this in mind, we will ensure additional access to technology is provided throughout the school day and in some cases beyond the school day.

At Ewyas Harold the computing curriculum is concerned with the learning and participation of all students. Teaching is planned with this in mind and Teaching Assistants are available to support all students, ensuring good progress is made.

We aim to provide suitable learning opportunities regardless of gender, social or cultural backgrounds.

Regular assessment of pupil needs and understanding plays a vital role here as does the provision of appropriate resources, the internet and our whiteboards offer a wealth of materials that can be matched to suit individual or group needs, enabling all pupils to develop their computing skills.

### **Roles and responsibilities:**

At Ewyas Harold Primary School, the computing subject leader is responsible for:

- Overseeing the implementation of the computing curriculum
- Monitoring the learning and teaching
- Ensuring the assessment is relevant and informative
- Keeping up to date with developments in computing
- Observing Computing Lessons
- Monitoring/ Supporting Computing Planning
- Preparing Policy Documents
- Liaising with staff team and ICT technician
- Advising colleagues and helping to deliver and provide expertise

### **Assessment:**

At Ewyas Harold Primary School, children should be assessed against their progress in understanding and applying computing against the curriculum map. This will be self-evident from the work produced in a situation where no teacher support is given once a task has been assigned.

### **Disability Equality Impact Assessment**

This policy has been written with reference to and in consideration of the school's Disability Equality Scheme. Assessment will include consideration of issues identified by the involvement of disabled children, staff and parents and any information the school holds on disabled children, staff and parents.