

# Implementation—How do we achieve our aims?

The computing curriculum is based on the National curriculum objectives for KS1 and KS2. Many of the KS1 objectives are covered within the 'Purple Mash' scheme of work for discrete units but also taught through cross curricular links where possible, whereas Key Stage Two is primarily based on the progression of hardware and software. Computing is covered within each year group, rather than coverage across the phase. Progression is maintained through the phases by following the specific year group objectives, which build upon and revisit prior learning from the previous years.

Curriculum design Our curriculum follows a clearly sequenced and progressive program of study based on the National Curriculum, whilst also considering the interests of the children. Computing progression is thought about in three ways: computer science, information technology and digital literacy. We promote high quality teaching that is appropriately pitched to individuals and we try to plan for Cross-curricular links to allow children to experience how computing can fit into the wider world.

### **Knowledge Rich**

We want our children to understand how computing is used purposefully to 'empower knowledge'. This knowledge includes the history of computing and explains how it is used in the modern world. At Hurst Green, pupils are taught how computers have contributed to our past achievements and how technologies can transform lives going forward. Range of technology Through the Key Stages, children are taught to use a range of electronic and practical resources, such as; IPads, Chrome

books, laptops, BeeBots and desktops. We want to prepare children for the next stage of their computing learning so they are able to apply these computing skills across a wide range of devices. We try to provide opportunities for our children to apply the use of technology across a range of subjects. We want the pupils to demonstrate a love of technology, resources and Apps and how to use these within their daily life.

# Vocabulary

When computing is taught at Hurst Green, we share technical and accurate vocabulary with the children for each Computing

unit. During their sessions, the children talk about their learning in Computing using appropriate and technical vocabulary. We want our pupils to have widened computing and technical vocabulary and use this not only in computing lessons, but also in lessons such as Science and Maths. We teach E-safety lessons that are used to develop children's knowledge and understanding of being safe online. Progression in vocabulary is planned from Year 1 to Year 6 so that vocabulary is revisited across different contexts.



# <u>Implementation (continued)</u>

# Subject knowledge

Subject-specific CPD is an important priority for primary schools. Our CPD ranges from in-house training to curriculum leads attending Teach Meets with other local schools and self-directed training via National College. We offer staff CPD to ensure that they have sufficient skills to teach effectively during computing lessons but also to deliver other parts of the curriculum using their IT skills.

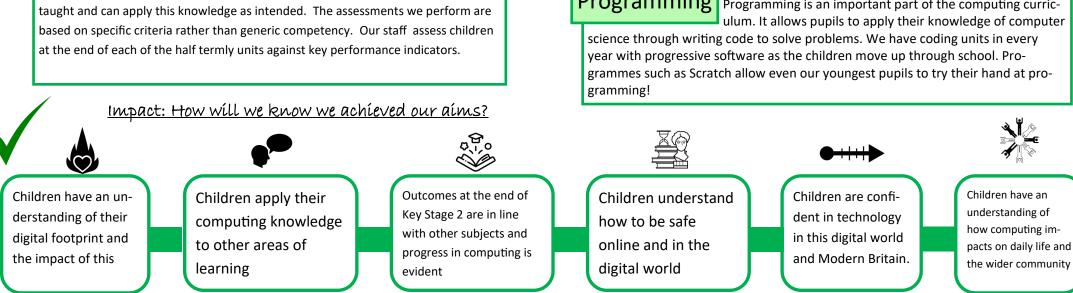
## Diversity

Diversity in computing must be addressed and taught that anything and everything that is

posted or saved on a device can be retrieved and that digital footprints exist even if data is deleted. It is important not to create stereotypes or create a platform to send inappropriate messages or comments regardless of ethnicity, age or gender.

## Assessment

Our assessment determines whether pupils can remember what they have been



#### Computational thinking

Computational thinking is when pupils solve problems in computing. We encourage our children to solve prob-

lems in computing so these skills can be transferred to other areas of the curriculum. The elements we including with our teaching are Logical thinking, algorithmic thinking and pattern recognition.

#### Focus days & Events

Focus days and events are being developed within the curriculum as we feel these allow the children to apply their

It is important for pupils to develop their computing knowledge

learning to a real life context. The children at our school take part in E-safety week, Google experiences and trips to locations such as The National Space Centre. Children are also invited to regular e-safety assemblies which tie into our Jigsaw PSHE work.

# Inclusivity

from an early stage. Therefore, we will include an introductory curriculum for our EYFS children to prepare them for the cognitive dimensions of learning. We recognise the national gender imbalance of computing but we ensure all pupils are provided equal opportunities. Children with SEND are supported where needed within lessons by the use of computing aids to assist them.

**Programming** Programming is an important part of the computing curric-