



## **Hetton Lyons Primary School**

### **Computing Policy 2020**

#### **Intent**

At Hetton Lyons Primary school, we want our children to be prepared for an ever-changing digital world. Technology is all around us and will play a crucial part in our children's lives; therefore, we aim to teach our children how to use technology positively, responsibly and safely. We recognise the importance of ensuring our children become digitally literate with an understanding of themselves as individuals within their community, members of a wider global community and as responsible digital citizens. At Hetton Lyons, we recognise that technology can allow children to share their learning in creative ways; our curriculum will support children to apply their knowledge creatively, which in turn will allow them to become skilful computer scientists.

#### **Our Computing Principles**

Our school's Computing principles are based on consultation with staff and children; this is our vision.

Good Computing is:

- Preparing our children for a fast changing digital world.

- Ensuring our children become digitally literate.
- Providing a safe computing environment through appropriate computing behaviours.
- Enabling our children to understand and appreciate their place in the modern world.

### **Implementation**

At Hetton Lyons, we are in the early stages of following a new programme which we feel provides a more exciting and upto date platform than before. Purple Mash covers the skills and knowledge that children gain through teaching and learning activities.

Computing is taught in discreet computer lessons following the Purple Mash scheme. Each strand of the curriculum, Computer Science, Digital Literacy and Information Technology is covered within the scheme. This gives children the knowledge and skills needed to allow them to use technology in other areas of the curriculum. Having discreet lesson ensures children are able to deepen their knowledge and skills over each of the topic areas.

Computing lessons are taught in our school's computing suite and through the use of Chrome books.

The programme is closely matched against the 2014 National Curriculum attainment targets to ensure coverage and progression of all knowledge and skills.

### **The importance of Computing in the curriculum**

Technology is all around us and is constantly changing and evolving. We want our children to develop a passion for the computing but also to have the knowledge and skills necessary to support them as they grow and enter the working world.

**In Key Stage1 and 2 we follow the National Curriculum.**

**Key Stage 1**

In Key Stage 1 children are taught the early stages of computing science. They begin to understand how programs work by following a simple set of instructions. Children begin to understand how to use technology safely and respectfully and understand what they should do if they have any concerns.

**Key Stage 2**

In Key Stage 2, children build on the skills taught in Key Stage 1 and begin to program with a goal and are able to control systems. Children begin to understand how computer networks work and continue to be responsible, respectful and safe computer users.

**Expectations**

By the end of Early Years Foundation Stage, the performance of most pupils should be working within the Early Learning Goals.

By the end of KS1, the performance of most pupils should be Year 2 Expected level.

By the end of KS2, the performance of most pupils should be Year 6 Expected level.

**Metacognition**

Learning is a change to long term memory and if nothing has been altered in long term memory, nothing has been learned. Each year group is

provided with key vocabulary, skills and knowledge that they children should have a clear and deep understanding of upon completion of the unit of work and should be revisited and recapped frequently in order for children to understand how their skill progression takes place. Classes have a 5-minute knowledge recall at the start of each lesson to recap previous learning and vocabulary.

### **How will we fulfil our aims?**

#### **Teaching and Learning**

The teaching and learning of computing at Hetton Lyons is designed to be engaging, interactive and purposeful.

Computing is taught in discreet lesson for one hour per week. Teachers are encouraged to implement technology into other areas of the curriculum to allow children to develop and deepen their knowledge and skills.

Children are encouraged to use the relevant vocabulary both during computing lessons and at other times, where appropriate. This ensures children are immersed in the subject and knowledge becomes embedded.

#### **Learning Environment**

In school, we want our children to be safe and respectful computer users, therefore we remind them of how to be safe when using technology in and around school. Our computer suite is up to date and designed so that all children have access to their own PC. Vocabulary is displayed during lessons to encourage children to develop their language skills.

## **Assessment**

Assessment is based on a combination of teacher assessment, peer assessment and pupil self-assessment. Our progression document is used by staff to inform planning and assessment.

## **6. Resources**

All necessary lesson resources are available online through the Purple Mash program and are available to print where appropriate. Furthermore, teacher books provide banks of activity sheets to run alongside units so as to provide evidence of progress and assessment. Knowledge Organiser are available to support children with vocabulary, objectives, success criteria and key questions for each unit of learning.

In school, children use Chrome Books and PCs to complete their work. Ipads are also available as many apps are a good tool for many of the learning tasks.

## **Cross Curricular Links**

Although Computing is taught through discreet lessons, the teaching sequence offers subject leaders and staff opportunities to discuss where technology can be used in other subjects. Children and staff are encouraged to be creative and show case their work in a variety of ways using technology. We are still in the early stages of following Purple Mash; therefore, we follow the teaching sequence as suggested by the program. As staff become more familiar with the program, there will be more scope to adjust and move units around to work alongside other subjects.

### **Trips and Visitors**

At Hetton Lyons, we take part in the national program First Lego League. This introduces science, technology, engineering and maths (STEM) through fun, exciting and hands-on learning. Children gain real-life problem solving experience through a guided robotics program.

In our 'Friday's Are....' lessons, we have visitors into school from different work sectors to share their experiences with the aim to inspire future engineers, computer designers and many other roles within computing and technology.

### **How is Computing monitored and evaluated?**

The subject leader will coordinate the implementation of the school computing program and monitor progress against the targets identified in the agreed action plan. The subject leader will carry out periodic reviews of the subject through lesson observations and discussions with children about their experiences and learning. Staff feedback and evaluations of the program are also carried out and acted upon accordingly.

### **Impact**

At Hetton Lyons, we want our children to be confident, safe and responsible computer users. We feel we provide the tools to ensure our children use computational thinking and creativity to understand and adapt to a fast-paced digital world.

Our whole school approach ensures our children:

- Achieve their end of year and Key Stage expectations.
- Become digitally literate.
- Are responsible, safe and respectful computer users.
- Understand and apply the basic concepts of computer science.
- Are creative and competent users of technology.
- Retain prior learning and make connections between what they have previously learned and what they are currently learning.

**Policy Review**

This policy will be reviewed by the governing body as part of its regular review of policies or when there is a change in assessment or curriculum.

**Policy Written by:** Donna Gibson

**Date presented to the Governing Body:** March 2020

**Date of next review:** March 2022