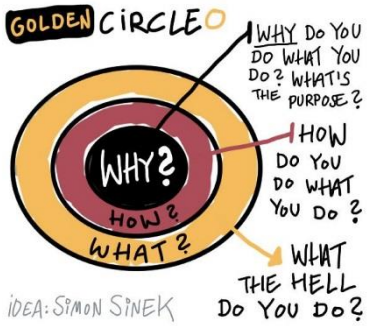
Himbleton CE Primary School and Nursery

Nurture, Nature, Knowledge:
Enabling inquisitive thinkers and inspired learners with kind hearts.

The Himbleton Approach to the Teaching of Computing



Intent

At Himbleton CE Primary School, we believe a high-quality computing education equips all children with the skills and knowledge in computational thinking and creativity to help them to understand the world that they live in and be able to be ambitious, successful young people. Computing is a significant part of everyone's lives and we believe that children should be at the forefront of new technology to complement and enhance their learning and experiences in a broad and balanced way. Computing has strong links to a variety of other subjects such as mathematics, science, design and technology and therefore we believe that, as an essential part of the curriculum, it is also integrated into all areas of learning, using a range of hardware, software and opportunities. At Himbleton CE Primary School and Nursery we recognise that pupils are entitled to quality software and hardware and a structured and progressive approach to the learning of the knowledge and skills needed to enable them to use it effectively. We also recognise the importance of responding to new developments in technology and aim to equip pupils with the confidence and capability to use a range of different devices to enhance their experiences. We strive to provide a relevant, progressive and enjoyable curriculum for all pupils, as well as using it for a tool to enhance learning throughout the wider curriculum. Computing as a stand-alone subject has a number of key components, each of which we aim to teach and fully instil the value of amongst our pupils. These are:

- **Computer Science** – Pupils are taught the principles of information and computation, how digital systems work, and how to put this knowledge to use through programming.
- **Information Technology** – Pupils are equipped to purposefully create programs, systems and a range of content in order to develop products and solutions. They will be able to collect, analyse, evaluate and present data and information.
- **Digital Literacy** – Pupils are taught to use, access and express oneself through digital technology, including a critical understanding of technology's impact on the individual and society, at a level suitable for the future and as active participants in a digital world.

We also firmly believe the importance of delivering a high-quality E-safety curriculum, alongside the core values of these three stands. E-safety is embedded throughout the computing curriculum and supports and consolidates the strong presence of E-safety within our PSHE curriculum. As technology develops, so does the need for a better understanding of how to use it in a responsible manner. The education of E-safety is therefore essential, to ensure children are equipped with the skills to recognise risks online, to be critically aware of the materials and content they access online, along with guidance on how to accurately validate information accessed via the internet.

Implementation

Pupils participate in regular Computing lessons in order to achieve the intent of the Computing and E-safety curriculum at Himbleton CE Primary School and Nursery. In addition to stand-alone lessons, skills taught are incorporated into other subjects, given the cross-curricular nature of Computing and the opportunities to expand and develop lessons that this brings. Lessons are delivered using a range of devices and through un-plugged activities where necessary.

The delivery of Computing and E-safety at Himbleton CE Primary School and Nursery is planned in line with the National Curriculum and allows for clear progression as children move through each stage of their education with us. Teachers use 'Purple Mash' as the primary scheme to support their planning and delivery, which caters for all children. Each year, children are taught the three main components of Computing (Computer Science, Digital Literacy and Information Technology). This allows children to build on and progress from their previous experiences, developing their skills, vocabulary and understanding in order to be active, responsible digital participants.

We have also identified key skills that are required in order to access and achieve key objectives within the curriculum. These are progressive and form our 'non-negotiables' document which teachers will teach and evaluate at appropriate points throughout the year.

E-safety is referred to in every Computing unit, in addition to discrete units taught at regular point throughout the year. Our PSHE curriculum (Heartsmart) also contributes to our delivery of E-safety. We also use the NOS (National Online Safety) in addition to other resources, such as CEOP, to keep up with new issues and development. Our E-safety lessons build on prior knowledge and are adapted/modified to suit the requirements of the pupils within the class and current issues that may be relevant. At Himbleton CE Primary School and Nursery, we strive to engage parents and carers with the importance of safe and responsible behaviour online and hold workshops and meetings, which are modified each year with relevant content and support materials. Pupils also take part annually in 'Internet Safety Day', following the suggested theme, which reflects current issues.

We recognise the need to continually maintain, update and develop resources to ensure the effective delivery of the National Curriculum and support the use of technology throughout the school. This includes:

- Interactive whiteboards in every classroom to enhance and promote effective use of technology for learning.
- Chromebooks for pupil use within lessons.
- iPads for pupil use in all classrooms as well as discrete lessons and across the wider curriculum.
- Programmable devices such as BeeBots.
- Subscription to online content such as Purple Mash and TTRockstars.
- The use of 'Dojo' to promote and support communication and collaboration across the curriculum as well as to promote and support communication and collaboration between school and home, including remote learning.

Lessons are planned to provide for and include all children. Pupils without home access are supported and catered for accordingly.

Impact

After each unit of work, teachers will make a judgement on whether pupils have met, exceeded or are working towards the objectives set. This will also provide information for the subject leader and will be submitted for analysis to track and monitor achievement and progress and the impact that this has had.

Evidence of progression and achievement will be seen in examples of pupils' work stored securely on the server.

As a result of effective implementation, pupils will be able to apply their skills and knowledge in other areas of learning.

Pupils will be able to share their knowledge of how to be a responsible user of technology through discussion when questioned. They will be prepared for the next stage in their lives, knowing how to be a responsible user of technology in the wider world and most importantly, know where to seek support.

Pupils will be familiar with and will discuss their understanding of the three main strands and will know key vocabulary associated with these. Confidence in this subject will also mean that pupils are able to be more independent and competent in life skills such as problem solving and logical thinking.

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Building on these themes, we believe that our computing curriculum contributes to the outworking of our whole school vision as it has an invaluable part to play in developing awareness of the wider world and preparing our children for life beyond Himbleton.