Intent, Implementation and Impact Statement for Computing

Intent:

At Highters Heath Community School, we aim to prepare our learners for the future, and the ever-changing digital world, by equipping them with the knowledge and skills to be able to navigate the world of computing confidently and with purpose. Our computing curriculum will enable our children to use their computational thinking to further understand the world that we live in. Knowledge and understanding of computing and digital literacy are of increasing importance when considering our pupils' futures, whether this be at home, for entertainment, further education and even employment. We aim for our children to be competent and knowledgeable within the digital world, as well as aspiring to use the skills gained further on into their futures. Our curriculum will ensure that children become digitally literate and meet the objectives for end of key stage expectations, alongside providing opportunities to use technology for purpose and develop their love of learning. Our curriculum focuses on the progression of skills within digital literacy (including e-safety), computer science and information technology. Over our curriculum these strands are revisited repeatedly to ensure that learning is embedded, and skills are developed. Our children will have a good understanding of e-safety and it is also our intention to ensure that computing/technology supports the children's creativity and cross curricular learning to further enrich their school experiences.

Implementation:

Computing is taught on a weekly basis and devices are used to support teaching and learning in other curriculum areas where beneficial to learning. Our school uses a published scheme called Kapow to teach the national curriculum for computing. This scheme provides high quality teaching opportunities within our computing lessons. This scheme provides full statutory coverage of the national curriculum for computing at EYFS, Key Stage 1 and Key Stage 2. The scheme is comprised of three aspects: digital literacy, computer science and information technology. Through our computing lessons children will learn how to develop ideas, communicate, collaborate, create, and evaluate using a range of technology, tools, and software. Children are also taught how to stay safe in this ever-evolving digital world through regularly taught lessons about e-safety. Kapow is supported by clear knowledge and skills progression to ensure that the children at Highters Heath have skills and knowledge that are built on year by year and are sequenced appropriately to maximise learning for all children, including those children with SEND. Kapow ensures that staff are provided with the required knowledge and skills to teach the planned units, and to support staff confidence. Within digital literacy, children develop practical skills in the safe use of ICT and the ability to apply these skills to solving problems, for example understanding the safe use of the internet, networks, and email. In computer science, we teach children to understand and apply fundamental principles and concepts, including abstraction, logic, algorithms, and data representation. As part of information technology, children learn to express themselves and develop their ideas through computing for example writing and presenting as well as exploring art and design using multimedia.

Impact:

Our computing curriculum will ensure that all children are digitally literate, it will also inspire our children to be confident users of technology. Our curriculum is high quality and planned to demonstrate progression and build on and embed fundamental skills. Our children will:

- Understand and use technology with increasing confidence and will be very well equipped to meet end of key stage expectations.
- Understand how to be safe online and how to ensure that they are using technology to its fullest potential, whilst always understanding the risks as well as the benefits. This includes applying the British Values of democracy, tolerance, mutual respect, rule of law and liberty as they navigate digital systems and the digital world that we live in today. (e-safety)
- Develop the required knowledge and skills to use technology and computing within different contexts and other subject areas.

We ensure that we use pupil voice to further develop and have an impact on our computing curriculum so that it is always evolving and improving. The computing lead will collect pupil voice each term, this pupil voice will be used alongside the Kapow assessment tracker to plan next steps and identify any gaps in knowledge or misconceptions. We also measure the impact of our curriculum by conducting learning walks and drop-ins. Staff conversations are vital to ensure that our computing curriculum is effective in developing competent and confident learners. We monitor journals of evidence (pupils learning) and we monitor plans and lessons to ensure full coverage of the computing curriculum.