<u>Computing</u>

<u>Intent</u>

Technology is everywhere and will play a pivotal part in students' lives.Therefore, we want to model and educate our pupils on how to use technology positively, responsibly and safely. We want our pupils to be creators not consumers and our broad curriculum encompassing computer science, information technology and digital literacy reflects this. We want our pupils to understand that there is always a choice with using technology and as a school we utilise technology to model positive use. We recognise that the best prevention for a lot of issues we currently see with technology/social media is through education. Building our knowledge in this subject will allow pupils to effectively demonstrate their learning through creative use of technology We recognise that technology can allow pupils to share their learning in creative ways. We also understand the accessibility opportunities technology can provide for our pupils. We encourage staff to try and embed computing across the whole curriculum to make learning creative and accessible. We want our pupils to be fluent with a range of tools to best express their understanding and hope by Upper Key Stage 2, children have the independence and confidence to choose the best tool to fulfil the task and challenge set by teachers.

In St Mary's these aims are taught through our Threshold Concepts -

- **Code**- This concept involves developing an understanding of instructions, logic and sequences.
- **Connect**- This concept involves developing an understanding of how to safely connect with others.
- **Communicate**- This concept involves using apps to communicate one's ideas.
- **Collect**- This concept involves developing an understanding of databases and their uses.

<u>Implementation</u>

At St Mary's, we aim to prepare our learners for their future by giving them the opportunities to gain knowledge and develop skills that will equip them for an ever-changing digital world. Our computing curriculum focuses on progression skills in computer science, information technology, digital literacy and online safety to ensure that children become competent in safely using, as well as understanding, technology. Online safety is paramount and we follow Project Evolve to ensure coverage of the key areas of being safe online and this is also taught discretely as well as embedded within our computing lessons. These skills are revisited repeatedly to ensure that the learning is embedded and that the skills are developed.

Computing is taught in discrete computing lessons but skills are often transferred to other curriculum areas. Employing cross-curricular links motivates pupils and supports them to make connections and remember the steps they have been taught. Having discrete lessons means that the children are able to develop depth in their knowledge and skills over the duration of each of their computing topics. We have around 40 laptops in school as well as around 40 iPads across EYFS, KS1 and KS2.

<u>Impact</u>

When children leave St Mary's, they are confident and safe users of technology, able to use it to accomplish a wide variety of goals, both at home and in school. Pupils have a secure and comprehensive knowledge of the implications of technology and digital systems. This is important in a society where technologies and trends are rapidly evolving. Pupils will be able to apply the British values of democracy, tolerance, mutual respect, rule of law and liberty when using digital systems.