



## Computing and ESafety Curriculum Overview

Our curriculum includes many common aspects and themes that are woven through all year groups and across all subjects:

- It is broadly topic based
- The curriculum allows the children to relate their learning and skills to our school values of appreciation, compassion, love, perseverance, respect and trust and live their lives by them.
- Children are encouraged to learn from first hand experiences and exploration, which is built upon to learn about increasingly less familiar and more abstract ideas, concepts and places.
- Life skills are progressively taught and embedded which children can transfer to the next phase of their education, and in time to the wider world of work and the outside world
- The school grounds and immediate locality are made good use of for learning, where possible, and the children are encouraged to develop a greater understanding of Reading's place in national and international affairs, in addition to its place in the Thames Valley.

### Intent:

Through our computing curriculum at St Mary and All Saints CE Primary School we aim to give our pupils the life skills that will enable them to embrace and use new technology in a socially responsible and safe way, in order to experience greater life opportunities. Our pupils will need to operate within the 21st Century workplace and we want them to know the career opportunities that will begin to open up to them through computing. Our learners will become independent users of computing technology, gaining confidence and enjoyment from their activities. The use of technology will support their learning across the entire curriculum and ensure that the curriculum is accessible to every child. Alongside being digitally literate and competent users of technology, they will develop creativity, resilience and problem solving and critical thinking skills. The children will have a breadth of experience developing understanding of themselves and as members of the wider global community and as responsible digital citizens.

### Implementation

Our computing curriculum is shaped by our school vision which aims to enable all children, regardless of background, ability, additional needs, to flourish to become the very best version of themselves they can possibly be. We teach the Computing element of the National Curriculum, supported by a scheme of work outlining clear skills and knowledge progression. This ensures that skills and knowledge are built on year by year and sequenced appropriately to maximise learning for all children. To ensure a broad range of skills and understanding, Computing is taught across three main strands: digital literacy, coding and information technology. As part of information technology, children learn to use and express themselves and develop their ideas through ICT for example writing and presenting as well as exploring art and design using multimedia.

Within digital literacy, children develop practical skills in the safe use of ICT and the ability to apply these skills to solving relevant, worthwhile problems for example understanding safe use of internet,

networks and email. Online safety is taught discretely in a 20-minute session outside of the computing lesson and is supported by resources from Project Evolve and aligned with the school's PSHE curriculum values. The school also participates in national themed days around ESafety such as anti-bullying day and Safer Internet day.

In coding we teach children to understand and apply the fundamental principles and concepts of programming, including abstraction, logic, algorithms and data representation. The children will also have opportunities to analyse problems using computational terms and have repeated practical experience of writing computer programs in order to solve such problems. We also teach a progression of Computing vocabulary to support children in their understanding.

At St Mary and All Saints CE Primary School, we give children access to a wide range of good quality resources and provide cross curricular opportunities for children to apply their Computing knowledge and skills.

Our computing and e-safety curriculum is taught both in the classroom and using our fully networked IT suite.

### **Impact**

The implementation of this curriculum ensures that when children move on from St Mary and All Saints CE Primary School, they are competent, confident and safe users of ICT with an understanding of how technology works. They will have developed skills to express themselves and be creative in using digital media and be equipped to apply their skills in Computing to different challenges going forward.