



Intent

At St Mary's CE Primary school, we believe that Computing should permeate the curriculum, allowing our children to learn how they want, when they want and where they want. Computing and technology should be used and promoted as a positive tool for learning. An effectively planned and thought-out computing curriculum, coupled with well-trained, knowledgeable and enthusiastic staff will allow our children to develop the necessary skills needed to be life-long learners in the 20th Century.

Our curriculum will provide for our pupils:

1. **Purposeful Practice / Hands-On Learning:** children explore and observe a range of software using chrome books, which are available to children from Year One to Six.
2. **Working Together Well:** Children are expected to work collaboratively to problem solve in computing lessons.
3. **Oracy and Vocabulary Development:** children are exposed to accurate vocabulary from the EYFS through to Year 6 and gain confidence in their use of it as they progress through school.

The Computing curriculum at St Mary's Primary School is designed to be make our children problem solvers, resilient and ready to go out into the world,

Implementation

Leadership

As the Computing subject lead, I am passionate about developing children's technological literacy as well as creating an inclusive environment where all children have the support infrastructure to learn. I strive to create an engaging curriculum that encourages exploration of hardware and software, taking into account local and global trends. My goal is to provide opportunities for discussion and reflection, helping pupils build confidence in their use of technology.

Organisation

Computing is taught weekly, from EYFS to Year 6, following the Kapow schemes of learning. I ensure, through careful planning and sequencing, that all children have online safety as the basis of the computing learning and that children explore

This is done not only through quality first teaching but is supplemented by visits to sacred places and places of worship; religious visitors to school; religious experiences in school (such as drama or dance workshops exploring faith).

Planning

At St Mary's, we choose to use the Kapow Schemes of learning for Computing. We have carefully chosen and adapted units of work to ensure that pupils' understanding across the key strands (Computer Science, Information Technology, Digital Literacy) is developed.

Using Kapow ensures that we develop a coherent and progressive curriculum, which is organised into the following:

- **Computing systems and networks** – understanding how digital devices function, connect and communicate, building foundational knowledge for all aspects of computing.

- **Programming** – developing computational thinking and practical coding skills, learning how to plan, write, test and debug programs.
- **Creating media** – the pupils express themselves creatively and purposefully using a range of software and hardware tools.
- **Data handling** – introducing the pupils to ways of collecting, organising, analysing and presenting data to support problem-solving and decision-making.
- **Online safety** – supporting pupils in becoming confident and responsible digital citizens, with the knowledge and strategies to navigate online environments safely and ethically.

Each unit is progressive and is designed to build upon children's prior knowledge. From Early Years to Year 6, this carefully sequenced spiral curriculum provides knowledge, skills and the opportunity to apply them in increasingly complex and purposeful environments.

Previous skills and knowledge are returned to and built upon. Children progress in terms of tackling more complex problems and answering simpler questions but thinking more deeply, or applying their knowledge more concisely, as well as developing understanding and knowledge of the history of technology and how it is good and bad for the world.

The R.E. curriculum ensures discussion, collaboration but also independent problem-solving skills

St. Mary's Primary CE Primary School also promotes Computing by using real-world technology in offices, to teach lessons and present information.

Impact

At St Mary's we want pupils to become computer literate people who thrive both individually and in groups. The expected impact of adopting and adapting the Kapow Schemes of learning is that children will:

- Through hands-on experiences, become more knowledgeable and understanding of a wider range of hardware and software.
- Enhance their vocabulary and oracy, encouraging pupils to articulate their thoughts and feelings about Computing effectively.
- Inspire a genuine enjoyment of the exploration of technology.
- Understand how some forms of computing or technology do not involve devices.
- Understand how the technology in communities and worldviews are influenced by the wider cultural, social, and historical contexts in which they are developed.
- **Meet the end of Key Stage expectations outlined in the NC for Computing.**

Assessment in computing plays a crucial role in measuring pupils' understanding and engagement with the subject. Formative assessment is woven throughout our lessons, where we encourage pupils to discuss, reflect, and receive feedback. This ongoing process helps to identify areas for improvement and fosters a supportive learning environment.

At the end of each unit, we implement a summative assessment, typically in the form of a multiple-choice quiz or as a 'show me' task. This not only consolidates the knowledge gained but also allows pupils to demonstrate their knowledge and understanding.

We believe that pupils should leave primary school equipped with a range of skills to enable them to succeed in their secondary education and to be able to be digitally literate and prepared for the world ahead of them!

