

Computing at St Mary's Horsforth CVA

Intent

Pupils at St Mary's are provided rich, deep learning experiences that balance all the aspects of computing. We believe that computing is an essential part of the curriculum; a subject that not only stands alone can be woven into all lessons and an integral part of all learning.

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 and allow them to flourish.

In line with the 2014 National Curriculum, our high-quality computing curriculum is designed to enable them to use computational thinking and creativity to further understand our world. The computing curriculum has been carefully crafted so that our children develop their digital capital in computing lessons and across the curriculum.

Our aim is that by the end of KS2, children will have gained key knowledge and skills in the three main areas of the computing curriculum: computer science (programming and understanding how digital systems work), information technology (using computer systems to store, retrieve and send information) and digital literacy (evaluating digital content and using technology safely and respectfully).

Implementation

At St Mary's we ensure that computing is taught with equal importance to that of the core subjects.

To ensure high standards of teaching and learning are embedded within computing, we implement a curriculum that is progressive throughout the whole school. Through Purple Mash, we teach stand-alone computing lessons weekly and incorporate aspects of our topic, when appropriate.

Children are exposed to lessons that include Coding, Internet and Email, Spreadsheets, Databases, Digital Music, Presentations and Online Safety. Pupils can also participate in extra-curricular computing clubs.

At St Mary's, computing and safeguarding go hand in hand. We provide an important focus on internet safety inside and outside of the classroom. Additional to all pupils studying an online safety unit through their computing lessons, we take part in National Internet Safety Day. Furthermore, all teaching staff at St Mary's have received their child protection and safeguarding training which covers online safety.

Specific Groups of children.

- All children will have Quality First Teaching.
- Any SEND children or those with pupil premium funding may have work additional to and different from their peers to access the curriculum dependent upon their needs. Their learning will be supported using scaffolds and where needed pre-teaching of knowledge and skills.
- Full use of assistive technology for SEND children. Purple Mash has sound icons that will read text to children. There is also the option to use voice to text in some Purple Mash activities.
- 'Rapid graspers' are encouraged to explore their understanding at a greater depth through open ended tasks and investigations.

How we monitor learning

- End of unit assessments.
- Feedback within lessons.
- Learning walks and reflective staff feedback (teacher voice).
- Pupil discussions and interviewing the pupils about their learning (pupil voice).
- Senior leaders monitoring of work from Purple Mash 'Display Boards'.
- Senior leaders looking at the data and identifying areas to develop.

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Impact

The impact this will have on the children of St Mary's is to ensure that they are equipped with computing skills and knowledge that will enable them to be ready for the curriculum at Key Stage 3 and for life as an adult in the wider world.

At St Mary's, we give our children the building blocks that enable them to pursue a wide range of interests and vocations in the next stage of their lives. Children will be able to apply the British values of democracy, tolerance, mutual respect, rule of law and liberty when using digital systems.

Computing at St Mary's caters for all children, taking into consideration all learning styles. We want to equip all children with not only the minimum statutory requirements of the computing National Curriculum but to prepare them for the opportunities, responsibilities, and experiences of later life.