



Computing at St. Michael's CE Academy



Intent - We aim to....



Provide an interesting and varied curriculum that intrigues, motivates and challenges our children.



Prepare children for the future world of work by equipping them with the knowledge and skills required to thrive in a rapidly changing technological world.



For children to be responsible and respectful users of technology and know how to report and keep themselves and others safe from online harm.



Utilise the opportunities for computing in other subject areas along with up to date technological resources.



Not only do we want them to be digitally literate and competent users of technology, but we want them to develop creativity, resilience, problem solving and critical thinking skills.



Implementation - How do we achieve our aims?

Curriculum

Children have access to suitable, up to date resources to allow access to the most recent technologies and software including: laptops, iPads, control technology - Lego We-Do, programmable devices - beebots and roamers Data loggers and micro-bits can be borrowed from the local technology hub to ensure that we meet the needs of the children and the National Curriculum. As a school, we follow the Teach Computing curriculum which has been created by subject experts, using the latest pedagogical research and teacher feedback.



Online Safety



We use the Evolve Curriculum to deliver online safety alongside the NCCE curriculum as well as embedding it through the wider curriculum where appropriate. We highlight online safety with the National Online Safety week, including an assembly delivered to the whole school, and take part, or run, our own Online Safety competitions.

Assessment

In KS2, we use weekly assessments that ensure continuity and progression. At the start of units, children are given baseline assessment activities to assess their skills, to ensure their prior knowledge is sufficient for the unit to be taught, or if found to wanting, pre-teaching of skills is used. In KS2, electronic assessments are used at the end of units to monitor each individual's progress in an in-depth way. In KS1 end of unit assessments are undertaken on their final piece of work.

Parental Engagement with Online Safety



Online Safety Newsletter November 2022

We empower parents, carers and the wider community with up to date information regarding keeping their children safe online with monthly electronic newsletters and additional electronic newsletters as things occur. We offer 1:1 support for families where asked for or found to be necessary. Parental meetings are held during the year to offer insights into online safety and allow questions and answers.

Implementation continued.....

Variation

There is a cyclical plan for the computing curriculum to ensure that there is continuity and progression as children move up through the year groups. Each unit builds upon its predecessor from the previous year. Within each year group some of the units build upon a unit done within the year.

Fluency—touch typing



The developing of alphabetical typing and numerical typing (each of them elements of the life-long skills of touch typing) are essential skills developed within computing lessons to enable the transferable skills of this within the wider curriculum using a range of software.

Vocabulary

Key subject specific vocabulary for the lesson is introduced and displayed for children to access throughout the learning. This vocabulary builds upon the previous lesson and is displayed to allow children the opportunity to talk using the correct language when discussing the task.

Impact - How will we know we have achieved our aims?



Children will be safe, responsible users of online, who know how to report concerns and keep themselves and others safe.



Children are confident users of technology and use technology effectively both at school and home.



By the time they reach year 6, children can use multiple programs to present their work or solve a problem.



We want children to discuss, reflect and appreciate the impact computing has on their learning, development and well being.



Children transition to secondary school with a keen interest in the continued learning of this subject.

Typical Lesson Structure

Big Question

Teaching of key skills relating to the program being used

Self-analysis of skills

Refining and developing key skills

In depth experiences such as trips and visitors

Innovate: Create final piece of work using the program

Evaluate the piece of work created against the skills learnt

Staff Subject Knowledge

Staff attend regular training (Continuing Professional Development), which is regularly revised by the national providers. All staff have access to a network of support from the NCCE staff and from the various online forums that are available and the central hub for NCCE. CPD videos are also available to be able to be accessed at any time to assist with subject knowledge for staff.

