Our historic schools are nestled in the Cheshire countryside, founded upon the principles of the Church of England, to serve the community, with Christian values at the heart of all we do. We offer pupils a caring, nurturing environment, where we endeavour to inspire and develop each unique child to reach their full potential, encouraging faith, hope and love of God. Our diverse and creative curriculum ensures a love of the world around us, a love of learning and a love of one another

'Love one another, as I have loved you' John 13:34

Computing Policy

Signed by	Chair of Governors/Committee
Rhian Perry, Executive Head	
Review Date Nov 2024	3 yearly review

INTRODUCTION

"A high-quality computing education equips pupils to use computational thinking and creativity to understand and change the world."

– National Curriculum, Computing

INTENT

We ensure that children are given opportunities to widen their knowledge and understanding of the world (local and wider community) and learn and apply skills which will make them successful learners for life as well as enhancing their spiritual, moral, social and cultural development.
Children will become confident, independent and resilient learners who are willing to take risks. They will have high aspirations and be proud of their achievements. We aim to give everyone the opportunity to fulfil their highest potential, both academically and in respect of their wider interests and talents.

- To enable children to become autonomous, independent users of computing, gaining confidence and enjoyment from their activities.

- To develop a whole school approach to computing ensuring continuity and progression in all strands of the computing National Curriculum.

- To use computing as a tool to support teaching, learning and management across all areas of the curriculum.

- To provide children with opportunities to develop their computing capabilities in all areas specified by the Curriculum.

- To ensure ICT is used, when appropriate, to improve access to learning for pupils with a diverse range of individual needs, including those with SEN and disabilities.

- To maximise the use of computing in developing and maintaining links between other schools, the local community including parents and other agencies.

- To safeguard our children and ensure that they are aware of the dangers and benefits of using the Internet. Children are to know how to keep themselves safe online.

- Children to be equipped with the technological skills required to support and promote their independent learning.

IMPLEMENTATION

Our children learn through a creative and skills-based curriculum. We endeavour to engage our children in their learning, enabling them to achieve their full potential.

Computing Vision

The use of Computing is an integral part of the National Curriculum and is a key skill for everyday life. Computers, IPads, programmable robots, are a few of the tools that can be used to acquire, organise, store, manipulate, interpret, communicate and present information. At Antrobus St. Mark's we recognise that pupils are entitled to quality hardware and software and a structured and progressive approach to the learning of the skills needed to enable them to become Computing proficient.

Key Stage 1

Pupils should be taught to:

- Keep safe on the Internet; how to keep personal information private and who to speak to for help and support if they are unsure about the content of something on the websites they are accessing.

- Understand and create algorithms.

- Create and debug simple programmes

- Use logical reasoning to predict the behaviour of simple programmes

- Recognise common uses for technology outside of the classroom.

- Use technology purposefully to create, organise, store, manipulate and retrieve digital content.

Key Stage 2

Pupils should be taught to:

- Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.

- Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.

- Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.

- Understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration.

- Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.

- Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.

- Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

Teaching and Learning

A key aim of teaching Computing is to equip children with the technological skill to become independent learners. In order to achieve this, the teaching style that we adopt is as active and practical as possible. As well as giving children direct instruction on how to use hardware or software, another emphasis of our teaching in Computing is for individuals or groups of children to use computers to help them to progress in whatever they are studying.

Cross-Curricular Opportunities

Antrobus St. Mark's Primary School believes that Computing is an integral part of Teaching and Learning across the curriculum. We are a well-resourced school with laptops, IPads, recording devices, programmable toys and interactive whiteboards that are available to support the delivery of high-quality Computing lessons. The laptops and iPads have the software required to deliver the computing curriculum through the planned Programmes of Study. All computers are networked and linked to the Internet. The school has an 'Acceptable use of the Internet' Policy, see separate Policy for more information.

Computing is a major contributor to the teaching of English. Children's reading development is supported through talking stories. As the children develop mouse and keyboard skills, they learn how to edit and revise text on a computer. They have the opportunity to develop their writing skills by communicating with people via e-mail. They also learn how to improve the presentation of their work by using desktop publishing software.

Children use ICT in mathematics to collect data, make predictions, analyse results, and present information graphically. Beebots allow pupils to give exact instructions for a particular route, or to use their knowledge of angles to draw a range of polygons in the Early Years Foundation Stage.

Spiritual, Moral, Social and Cultural Aspects

Raising awareness of SMSC is a paramount aspect of our curriculum at Antrobus St. Mark's Primary School. Within the Computing curriculum SMSC can be found through deepening the awareness of the way in which Computing affects our culture, preparing children for the challenge of living and learning in a technologically enriched, increasingly inter connected world and making clear guidelines about the ethical use of the internet and other forms of e-communications.

Children will also understand the boundaries established in society by considering what is acceptable, an awareness of the moral dilemmas created by technological advances, appreciate how different cultures have contributed to technology, recognise other's achievements and share enjoyment as well as using ICT for developing, planning, sharing and communicating ideas.

Continuity and Progression

Following the 2014 National Curriculum ensures continuity and progression in the children's learning throughout the school.

Assessment, Record Keeping & Reporting

Assessment is an integral part of planning and practice and is carried out in a variety of ways, see the School's Assessment Policy for further details.

Equal Opportunities and Inclusion

Equality of opportunity at Antrobus St. Mark's Primary School means that all children, taking account of gender, age, ability, disability, ethnic origin, faith, culture, social circumstances and sexual orientation have full access to all the curricular, pastoral and social opportunities offered by the school.

Health and Safety

The general and legal requirements for Health and Safety are covered in the school's Health and Safety policy document.