Policy:	Computing Policy

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None

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Policy Section:	Curriculum

Let the children come to me and do not hinder them, for the kingdom of God belongs to such as these." (Luke 18:16) This policy is based upon our Christian values of thankfulness, respect, honesty, love and resilience.

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St Mary's Computing Policy

1. Introduction

The use of Computing is an integral part of the National Curriculum and is a key skill for everyday life. Computers, iPads, programmable robots, digital and video cameras are but a few of the tools that can be used to acquire, organise, store, manipulate, interpret, communicate and present information. At St Mary's C.E. Aided Primary School 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.

2. Aims

At St Marys C.E. Aided Primary School we aim to:

- Provide a relevant, challenging and enjoyable Computing curriculum for all pupils.
- Meet the requirements of the National Curriculum programmes of study for Computing.
- Use Computing as a tool to enhance learning throughout the curriculum.
- Respond to new developments in technology.
- Equip pupils with the confidence and capability to use Computing throughout their later life.
- Enhance learning in other areas of the curriculum using computational skills.
- Develop an understanding of how to use Computing safely and responsibly.

3. National Curriculum

The National Curriculum for Computing aims to ensure that all pupils:

- Can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation.
- Can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems.
- Can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems.
- Are responsible, competent, confident and creative users of information and communication technology.

4. Rationale

St Mary's believes that Computing:

- Gives pupils immediate access to a rich source of materials.
- Can present information in new ways which help pupils understand access and use it more readily.
- Can motivate and enthuse pupils.
- Can help pupils focus and concentrate.
- Offers potential for effective group working.
- Has the flexibility to meet the individual needs and abilities of each pupil.

5. Objectives

5.1 Early Years

Although it is no longer stated in the Early Years Curriculum, at St Mary's we still believe that it is important in the Foundation Stage to give children a broad, play-based experience of Computing in a range of contexts, including outdoor play. Computing is not just about computers. Early years learning environments should feature Computing scenarios based on experience in the real world, such as in role play. Children gain confidence, control and language skills through opportunities to explore using non-computer-based resources. Recording devices can support children to develop their communication skills. This is particularly useful to those who have English as an additional language.

5.2 Key Stage 1

Pupils should be taught to:

- Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.
- Create and debug simple programs.
- Use logical reasoning to predict the behaviour of simple programs.
- Use technology purposefully to create, organise, store, manipulate and retrieve digital content.
- Recognise common uses of information technology beyond school.
- Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.

5.3 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.

6. Computing at St Mary's C.E. Aided Primary School

St Mary's C.E. Aided Primary School believes that Computing is an integral part of the Teaching and Learning across the entire curriculum. We are a well-resourced school with laptops, computers, iPads, recording devices, programmable toys and interactive whiteboards available to support the delivery of high-quality Computing lessons. The laptops, computers and iPads have the resources to deliver the Computing curriculum through the planned Programmes of Study. All computers are networked and linked to the Internet with appropriate monitoring and filters attached. The school has an 'Acceptable Use' Policy, which Parents/Guardians and pupils are asked to agree to, before their child uses the Internet.

7. Entitlement

The pupil's entitlement to Computing is based upon the Programmes of Study for Computing as defined in the 2013 National Curriculum. The 'Kapow Primary' Computing scheme of work will be used to deliver the programmes of study, alongside the National College Safety lesson packages taught through our online safety themed monthly focused lessons to support our teaching of Online Safety Issues (for further information see the Online Safety Policy).

8. Implementation

Pupils will have the opportunity to develop their Computing capability in the core and foundation subjects. Opportunities provided by the class teacher will enable the children to work both individually and in small groups. For all Computing lessons teachers will ensure that interactive strategies are used; teacher modelling is used; starters and plenary sessions are included and incorporated to ensure the learning objectives have been met and an element of online safety has

been discussed. To ensure that Computing is being taught fully, it will now be taught over an entire day in the final week of each term. Class teachers will liaise with each other to ensure that there are no clashes when sharing out the resources needed.

At St Mary's C.E. Aided Primary School pupils will experience networked computers, printers, Bee-Bots, iPads, Interactive Whiteboards, laptops, digital media and digital recording devices. They will also have experience with the Internet and a variety of software that allows teachers to provide for progression of skills, concepts and applications.

As an inclusive school, Computing is made accessible to all pupils by providing those who need it with suitable software and tasks, and with extra support through the use of software packages.

9. Recording and Assessment

Pupil's work will now be recorded in class 'big books' through the use of blurbs, photographs and pupil voice shown in speech bubbles. Online Safety lessons will also be recorded in the class 'big books' with examples of the pupil's work, plus quotes from whole class discussions.

For Years 1 to 6, the pupil's knowledge in Computing is assessed at the end of each topic taught. At the end of each topic pupils will be assessed on their work completed throughout, and against each lesson learning objectives for that unit of work. For each lesson the children will be placed under Working Towards (WT), Secure Understanding (SU) or Greater Depth (GD) on the school spreadsheet. The spreadsheet will then be shared with the Computing subject lead.

For EYFS the pupils' knowledge will be assessed against the Early Learning Goals for Mathematics, Communication and Language, and Physical Development, plus the four other areas of learning through the use of observations along with the evidence collected in the class 'big books'.

10. Management

The Computing Curriculum Leader and Senior Management are responsible for the implementation of this Policy; the management and repairs of Computing resources through the Computing Technician, monitoring Computing standards of achievement and progression, and working with SLT to arrange appropriate training for all members of staff where necessary. St Mary's C.E. Aided Primary School is committed to continuing the reliability of the network. Vince Markcoons is currently employed as Computing Technician by the school to support with technical matters. The class teachers are responsible for the delivery of this policy and the care and security of the hardware and software. The school is committed to the ongoing resourcing of Computing equipment and software, in relation to the School Development Plan. The school is responsible for ensuring that copyright regulations are not infringed.

11. Review

The policy will be reviewed annually with the aim of meeting any new developments and initiatives both nationally and locally.