Forty Hill C.E. School
Computing and Technology Policy

Introduction

At Forty Hill C.E. School, know that our children will need to enter the world as digitally literate students, understanding a range of computing topics in order to fully prepare them to live within a digital world. We offer a range of experiences in order that our children are exposed to and learn about the world of computing throughout their time at Forty Hill.

Our Vision

that our safe and welcoming Christian community gives every child every opportunity to be **fulfilled**, **healthy** and **successful**.

Aims

We teach Computing and Technology in order to develop a digitally literate child as a programmer, coder and able technician. This means ensuring that the children develop both their **skills** and their **knowledge** in the following ways:

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

Access to a range of technology throughout the primary curriculum will enable pupils to prepare for a rapidly changing world in which work and other activities are increasingly transformed by access to varied and developing technology. Pupils use technology to find, explore, analyse, exchange and present information responsibly, creatively and without discrimination. Pupils learn how to employ technology to enable rapid access to ideas and experiences from a wide range of people, communities and cultures. Increased capability in the use of computing promotes initiative and independent learning. Pupils will be able to make informed judgements about when and where to use technology to best effect and consider its implications for home and work both now and in the future.

At Forty Hill, we aim to provide all our pupils with a wealth of experience in Computing activities, both in teaching Computing skills and in using technology to support teaching and learning in a cross curricular way. This policy, in addition to the School's Online Safety Policy is intended to provide a clear and agreed framework for the teaching of Computing and Technology. It needs to be continually monitored in order to ensure that provision is as effective as possible.

Computing and Technology in the Wider Curriculum: (See the 'Teaching and Learning Policy' on school website) When teaching Computing and Technology, teachers will:

- carry out assessment for learning (AFL) before planning each lesson
- always explain the learning objective
- often use a key question to direct pupils' thinking / enquiry about the subject and the skill being acquired
- ensure that a range of resources and activities are used to allow each pupil to be an effective learner and make progress
- use a range of teaching strategies to ensure pupils fully understand what they are learning, how they learn and how well they are progressing
- ensure that pupils learn in a variety of ways, both in and outside of the classroom

In learning Computing and Technology pupils will:
- Develop Computing capability, in line with the National Curriculum and National standards
- Develop their knowledge of what algorithms are and how they are implemented as programs on digital devices
- Develop their logical reasoning skills to predict the behaviour of simple programs
- Develop their ability to use technology to support their use of language and communication in other areas of the curriculum
- Use technology purposefully to create, organise, store, manipulate and retrieve digital content
- 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
- Use technology to work in collaboration with other children, within school, in London and from other cultures across the world

Curriculum Organisation:

The children's experiences have been carefully planned to ensure that their needs are met in each year group, building on past knowledge, experience and ability. In the Foundation Stage, children explore how Computing and Technology can be used to communicate information, control events and change situations.

Pupils are taught:
- How to use a computer safely and sensibly – In line with requirements set out in the Forty Hill Online-Safety Policy
- To recognise that a range of technology is used in places such as home and school. They select and use technology for particular purposes
- To use ICT in a cross curricular way to support their learning throughout the Foundation Stage

In addition to the teaching and learning of Computing skills, staff and pupils are expected to use ICT to support work in many other areas of the curriculum. In every class, staff have access to their own iPad as well as shared access to IT suite based iPads and a fully functioning ICT Suite to enable the teaching of ICT in other subjects.

Assessment

To assess pupils' progress in Computing and Technology we:
- use national curriculum objectives to inform teacher judgements in Computing which are made termly
- record the judgements on our shared system, ScholarPack
- ensure work is saved using the systems within PurpleMash to create a log of work
- make notes of visits/visitors

These assessments are accessible by the Headteacher, Deputy Headteacher and the subject lead in order to analyse progress and report on progress and attainment to feedback to Governors.

Annual reports to parents will indicate the child's progress and attainment in this subject.

Roles and Responsibilities

The Headteacher, ICT curriculum group, nominated Computing Governor and all teaching staff have responsibility for the implementation of this policy and modelling good use of computers and technology. The Senior Leadership Team, alongside the ICT curriculum group, is responsible for monitoring the delivery and teaching of Computing within the school. The Senior Leadership Team and relevant subject co-ordinators will monitor the use of Computing to support the teaching of other areas of the curriculum.

The ICT curriculum group has responsibility for purchasing and organising resources, ensuring continuity and progression, monitoring Computing use in the curriculum, supporting staff and providing or organising in-service training as appropriate.

Parents are encouraged to take an active role as educators in partnership with the school. To enable parents to support their children's development in Computing, we will provide parents with information on how Computing is taught and suggest how they can help their child at home.

Training for staff
Training and support should offer opportunities for all staff to:
- Use ICT to support their work in the planning, preparation and delivery of teaching and supporting children's learning
- Develop their skills and knowledge of Computing
- Use ICT to assist with administration tasks and the recording of children's attainment
- Use ICT (through use of the MLE and staff emails) to communicate with staff
- Check/update the MLE calendar daily to ensure a working knowledge of school events
- Ensure utmost care of pupil data is taken in line with requirements set out in the Online Safety Policy and our GDPR policy

Access and Organisation of Computing and Technology Resources
All children need to explore the range of technology that is available to them through:
- Wireless internet access in our classrooms and IT suite.
- Interactive whiteboards with range of whole class and individual teaching software in KS2/KS1 and Foundation Stage
- An ICT Suite containing 31 computers, enabling shared access across KS1, KS2 and Foundation Stage
- A shared set of school iPads for supporting the creative use of technology across the curriculum
- An iPad for each class for supporting small group teaching
- A central bank of other peripherals such as, webcams, floor robots, stop animation technology, data loggers and other resources to support the teaching of a range of computing skills.
- Online subscription to online environments such as Purple Mash to support ICT skill development, ensure thorough curriculum coverage and provide opportunities for cross curricular learning

We aim to continually review our resources and further develop our provision to move Computing forward in school as new technological developments are made.

Monitoring and Evaluation
To monitor and evaluate Computing and Technology, the subject leader will:
- carry out work and planning scrutinies
- observe lessons through formal observation and/or learning walks
- ensure that the school stays abreast of any changes in national or local expectations
- carry out pupil interviews
- review provision of resources
- support with teaching and learning and CPD

Equal Opportunities and Special Educational Needs and Disability

All children are provided with equal access to the Computing and Technology curriculum. We aim to provide suitable learning opportunities regardless of gender, ethnicity or ability/disability. Every effort must be made by teachers to ensure that pupils with SEND are enabled to participate as fully and as effectively as possible in Computing and Technology. Teachers should take specific action to enable the effective participation of all pupils through effective planning. Potential areas of difficulty should be identified and addressed at this stage.

Accepted by the Governing Body: March 2023
Review Date: March 2025