

St. Margaret's Anfield Church of England Primary School

Jesus said, "Love one another as I have loved you" (John 13:34).
Therefore, by faith and work, be the change you want to see.

With God, all things are possible.



Policy for Computing

C.Feeley

Date	Action	Review Date
November 2022	Adopted by FGB	Dec 2023
November 2023		
November 2024	Adopted by FGB	Dec 25
November 2025		

Introduction:

The use of ICT is an integral part of the national curriculum and is a key skill for everyday life. Computers, iPads and programmable robots are a few of the tools that can be used to acquire, organise, store, manipulate, interpret, communicate and present information. At St Margaret's Anfield Church of England 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 use it effectively.

The purpose of this policy is to state how the school intends to make this provision.

Aims:

The national curriculum for computing aims to ensure that all pupils:

- Can understand and apply the fundamental principles of computer science, including logic, algorithms, data representation, and communication
- 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

The school's aims are to:

- Provide a relevant, challenging and enjoyable curriculum for Computing for all pupils
- Meet the requirements of the national curriculum program of study for Computing
- Use ICT and Computing as a tool to enhance learning throughout the curriculum
- To respond to new developments in technology
- To equip pupils with the confidence and capability to use ICT and computing throughout their later life
- To develop the understanding of how to use ICT and computing safely and responsibly

Objectives:

By the end of key stage 2 pupils should be taught to:

- Design and write 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; generate appropriate inputs and predicted outputs to test programs
- Use logical reasoning to explain how a simple algorithm works 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
- Describe how internet search engines find and store data; use search engines effectively; be discerning in evaluating digital content; respect individuals and intellectual property; use technology responsibly, securely and safely

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

Resources:

- * One computer per classroom- attached to an IWB
- * 134 Chromebooks
- * 30 Laptops
- * 90 iPads
- * Xbox Series X with 4 control pads
- * Rodecaster Pro 2 and associated podcasting equipment for up to 4 speakers
- * Blue-Bot Class Pack
- * Crumble Class Kit

All resources are accessible for staff to use in the teaching of computing and cross-curricularly with their classes. Additional lesson-specific resources can be requested and supplied through the MGL service contract at no additional cost.

Planning and assessment

Monitoring and Reviewing:

The monitoring of the standards of the children's work and of the quality of teaching in Computing is the responsibility of the Computing subject leader. The Computing subject leader is also responsible for supporting colleagues in the teaching of Computing, for keeping informed about current developments in the subject and for providing a strategic lead and direction for the subject in the school. The ICT and computing subject leader provides the governors and head teacher termly summative reports in which they evaluate the strengths and weaknesses in the subject and indicates areas for further improvement. The Computing subject leader collects evidence in the form of media and composed work and may carry out lesson observations.

Equal Opportunities

We teach Computing to all children, whatever their ability, age, gender or race. Computing forms part of our school curriculum policy to provide a broad and balanced education for all children.

We provide learning opportunities that are matched to the specific needs of children with learning difficulties. In some instances the use of ICT has a considerable impact on the quality of work that children produce; it increases their confidence and motivation and allows access to parts of the curriculum to which the children would otherwise not have had.

Teachers identify children who are gifted and talented in Computing. It is the teacher's responsibility to ensure that these children are suitably challenged in their use of ICT and Computing both in specific Computing lessons and in using ICT in other curriculum areas.

Roles and Responsibilities

Subject Leaders

C.Feeley is responsible for providing professional leadership and management of computing within the school. He will monitor standards to ensure high quality teaching, effective use of resources and improved standards of learning and achievement. This may include observation of lessons and scrutiny of the pupils' work. He will collect, analyse and distribute, where applicable, information relating to the subject to the relevant people.

Class Teachers

It is the responsibility of each class teacher to ensure that their class is taught all elements of the Computing curriculum as set out in the national curriculum programme of study. All classes have been provided with a planning overview by the subject leader. It is their responsibility to plan, prepare and deliver Computing lessons and store evidence from these lessons in accordance with the Evidence Matrix.

Any issues with planning or resources should be brought to the attention of the subject leader as soon as possible.

MGL Support

Joe Priestly and Sarah Broadfoot both deliver weekly PPA cover across all phases, on a rotational basis, as set out in the yearly overview. Each class will receive a term of Computing lessons, taught by a subject expert, each academic year. Evidence of the work completed by children should be collated and shared in accordance with the Evidence Matrix and shared through the class and school twitter accounts where appropriate.

Any teachers requiring CPD can use their PPA time to observe the MGL experts and evidence how they implement high quality teaching within their class.

Training

All staff, including managerial and administrative staff, receive support from the subject leader or MGL and, where necessary, external training in hardware or software which they are expected to use to carry out their role.

Safety

- Children should not put plugs into sockets or switch the sockets on
- Trailing leads should be made safe behind the equipment
- Liquids must not be taken or consumed near any of the computing equipment
- The e-safety policy should be closely followed during Computing lessons and when using any equipment