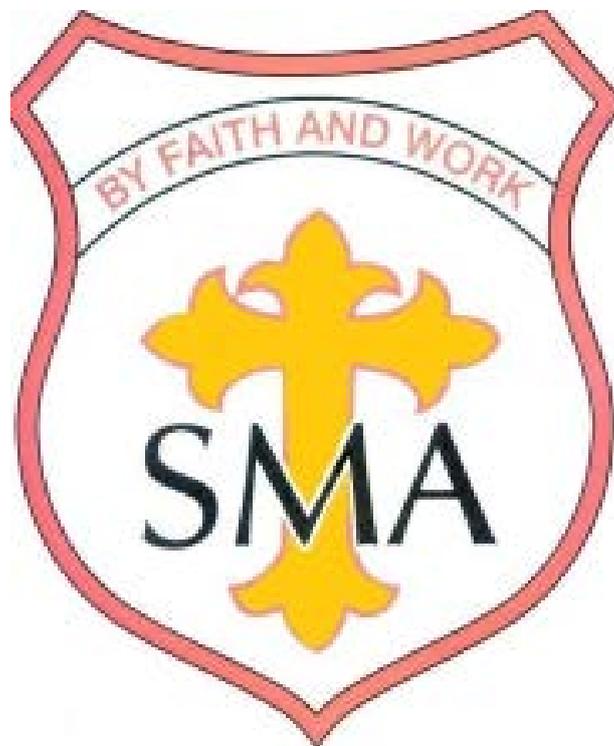


**With God, all things are possible**

**St. Margaret's Anfield Church of England Primary School**

**Jesus said, "Love one another as I have loved you" John 15:12.  
Therefore, by faith and work, we will be the change you want to  
see.**



**Computing Policy**

**Miss E. McNulty**

**November 2019**

## **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
- 4 laptops in the PLC
- 8 additional laptops
- 26 laptops in the junior computer suite
- 12 computers in the infant computer suite
- 32 iPads (Y3-6)
- 10 iPads (Reception)
- 20 iPads (Year 1)
- 10 iPads (Year 2)
- 10 Spheros
- Lego WeDo Robot kits
- Bee-bots

All resources are kept in a central location and can be booked in slots by class teachers or teaching assistants.

## 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 gives the governors and head teacher an annual summary report in which she evaluates the strengths and weaknesses in the subject and indicates areas for further improvement. The Computing subject leader will collect evidence in the form of media and written work and will 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 Leader**

E. McNulty is responsible for providing professional leadership and management of computing within the school. She will monitor standards to ensure high quality teaching, effective use of resources and improved standards of learning and achievement. This will include observation of lessons and scrutiny of the pupils' work. She 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.

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

## **MGL Support**

Craig Moffett offers fortnightly CPD to teachers across all phases. The aim is that each teacher will get at least one session with Craig each academic year. Evidence of this CPD should be evident in children's Topic Books.

All teachers must use this CPD effectively and also evidence how they have implemented this high quality training with their own class.

## **Training**

All staff, including managerial and administrative staff, receive support from the subject leader or technicians 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 near the computers

**The e-safety policy should be closely followed during Computing lessons and when using any equipment.**