

Computing Policy

Statement of Intent

At The Arches Community Primary School, we understand that a high-quality computing education is essential for pupils to understand modern information and communication technologies (ICT), and for them to use these skills to become responsible, competent, confident and creative participants of an increasingly digital world.

Throughout this policy, we outline how we, as a school, will deliver the requirements of the KS1 and KS2 computing programmes of study, to ensure that our pupils have the digital skills they need. We aim to inspire pupils to continue to learn and apply the skills they learn at secondary school, university, and beyond in the workplace.

Legal Framework

This policy has due regard to all relevant legislation and statutory guidance, including, but not limited to, the following;

- DfE (2013) 'Computing programmes of study: key stages 1 and 2'

This policy operates in conjunction with the following school policies;

- Safer Internet Use and E-Safety Policy

Roles and responsibilities

The headteacher will:

- Ensure the school is meeting statutory Computing requirements.
- Ensure that there is a Computing Policy and that it is implemented.
- Review and update the Computing Policy with the Computing Subject Leader.

- Ensure that the Computing Subject Leader is effectively line managed and supported.
- Monitor and evaluate the purchase of Computing equipment.
- Receive and respond to online safeguarding reports.

The computing subject leader will:

- Secure and maintain computing resources, and advise staff on the correct use of digital technologies.
- Offer help and support to all members of staff in their planning, teaching and assessment of computing.
- Keep the headteacher and other stakeholders, such as parents, informed about the implementation of the primary computing curriculum.
- Keep up-to-date with new developments in computing and communicate such information and developments to colleagues, including, where necessary, through the creation and delivery of bespoke training programmes.
- Attend appropriate CPD.

Teachers will:

- Plan and deliver the requirements of the KS1 and KS2 computing programmes of study to the best of their abilities.
- Set high expectations for all their pupils, including pupils with special educational needs and/or disabilities (SEND), pupils from various social, cultural and linguistic backgrounds, and academically more able pupils.
- Encourage pupils to apply their knowledge, skills and understanding of Computer Science, ICT And Digital Literacy across the curriculum.
- Maintain up-to-date records of both formative and summative assessment.
- Tailor lesson delivery according to pupils' respective abilities.

EYFS

Although computing is not a statutory part of the EYFS, we will ensure that children in our FS2 class receive a broad, play-based experience of computing through the use of new technologies. Age appropriate introductions into online safety will also be explored with children through stories and songs.

KS1

In line with the National Curriculum requirements, pupils at KS1 will 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
- Understand where to go for help and support when they have concerns about content or contact on the internet or other online technologies.

KS2

In line with the National Curriculum requirements, pupils at KS2 will 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
- Understand acceptable/unacceptable behaviour online and identify a range of ways to report concerns about content and contact.

Online Safety

Internet access is planned to enrich and extend learning activities. At The Arches Community Primary School, we acknowledged the need to ensure that all pupils are responsible and safe users of the Internet and other communication technologies. A Safer Internet Usage and E-Safety policy has been created to protect all parties and rules for responsible internet use will be displayed next to each computer with Internet access. The Computing Subject Leader works alongside the Designated Safeguarding Leads within school to ensure that internet safety remains a high priority.

Although the school offers a safe online environment through filtered internet access, we recognise the importance of teaching our children about online safety and their responsibilities when using communication technology in the digital age. Online safety is taught throughout the year; within the computing curriculum and within PSHE and school enrichment activities.

Curriculum Delivery

The core requirements of the KS1 and KS2 computing programmes of study, such as coding and programming, will be delivered through the MGL scheme of work. The teaching of digital literacy skills and ICT skills will be extended through cross-curricular subject links across the school. At The

Arches, we aim to equip children with the skills they need to be competent, safe technology users and computer scientists. Therefore, the teaching style we adopt aims to be as practical and active as possible.

We have a dedicated computing suite, equipped with enough laptops to be used by a whole class, alongside class sets of iPads and Chrome Books to be used within classrooms. We also have Bee Bots, Micro:Bits and Crumbles to support the delivery of the primary computing curriculum. An audit of resources is completed on an annual basis to ensure that our computing provision remains appropriate to the latest requirements of the National Curriculum. Web filters are kept up-to-date in order to ensure that pupils don't access inappropriate materials. Obsolete or broken machines are recycled, repaired in accordance with data protection requirements.

Inclusion

It is the responsibility of all teachers to ensure that all pupils, have access to the curriculum and make the greatest progress possible. In order to ensure that children with SEND achieve to the best of their ability it may be necessary to adapt the delivery of the Computing Curriculum. We do this by setting suitable learning challenges and responding to each child's different needs. In order to meet the needs of children the methods below may be used:

- Grouping pupils by ability and setting different tasks for each ability group.
- Making reasonable adjustments to the way in which we deliver the computing curriculum, such as providing transcripts of online learning videos to pupils with hearing impairments, or making resources available in a pupil's first language where they use English as an additional language.
- Assigning classroom assistants to individual/groups of pupils, where appropriate, to enable greater one-to-one support.
- Providing extra learning opportunities through bespoke support groups (e.g. one for those with SEND and another for academically more able pupils), delivered during lunchtimes and/or after school.

Pupils may be asked to become 'Digital Leaders', mentoring and sharing their skills with others.

Assessment

Assessment of computing is ongoing throughout the year. Assessment of progress against the National Curriculum statements will be recorded and monitored through the Insight system. Teachers should use their professional judgements and knowledge of each child, alongside the MGL end of unit quizzes and any project based work to inform these assessments. Ongoing formative during lessons will help to monitor pupils' understanding and progress in the moment; the outcomes of which we will use to ensure that work matches the individual needs and abilities of pupils so that support or extensions is provided as needed. Samples of work will be kept for groups of children, stored in both classrooms and on the school network, within relevant class and pupil folders.

Resources

At The Arches, we believe that in addition to learning Computing as a subject in its own right, the potential of Computing to improve teaching and learning throughout the curriculum should be fully exploited. To meet this objective, every classroom is equipped with an Interactive Whiteboard and an appropriate number of laptops and iPads for pupil ratio are available to access throughout the school. There is also a Computing Suite with laptop computers to encourage the use of keyboards and mouse/track pads.

The school also has the following:

- Inkjet printer and colour photocopier
- Digital cameras for use in class
- 2 class sets of iPads, teacher iPads, 6 FS2 iPads
- Beebots and BlueBots
- Laptops in classrooms and in the Computing Suite.

After-School Club

KS2 pupils have the opportunity to develop their programming and coding skills through our After School Club once a week, where they are provided with the opportunity to work with a computing specialist teacher from MGL.

Monitoring and Evaluation

We appreciate that computing is rapidly developing, with new uses and technology being created constantly. We will review this policy on an annual basis, in line with our policy review schedule. We will review our web filters on an annual basis in order to ensure that pupils continue to be protected from inappropriate content online.

Monitoring of the standards of 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, being informed about current developments in the subject, and providing a strategic lead and direction for the subject in the school. The Computing subject leader gives the headteacher an annual report in which they evaluate the strengths and weaknesses in the subject and indicates areas for further improvement.

Next review date: 16.7.26