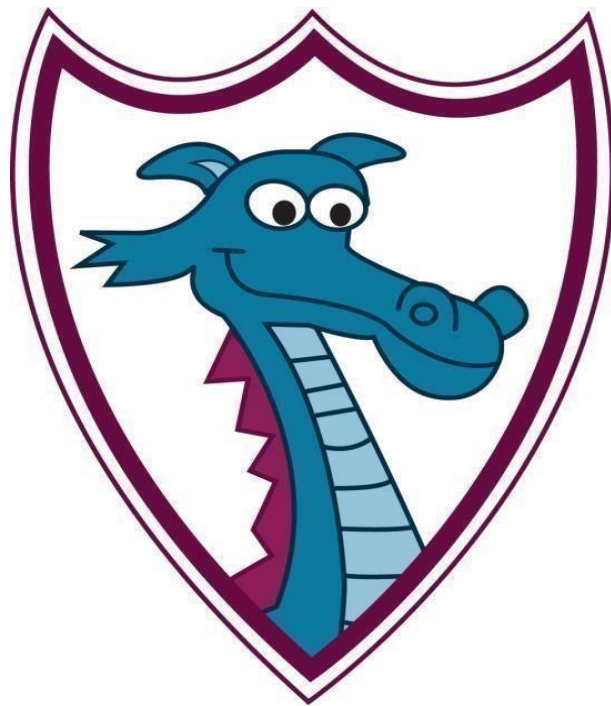


CORSHAM PRIMARY SCHOOL

Computing Policy and ICT Policy



Reviewed: December 2023

Policy Ratified by the LGC: January 2024

Next Review Date: December 2024

of Learning, and ICT as the valuable cross curricular tool that can support learning in other subjects, within the National Curriculum and beyond.

Our Aims

- To use Computing & ICT whenever its speed, power, graphics or interactive potential can enhance and extend the quality of learning undertaken.
- To integrate the use of ICT into a subject context by following Curious Computing, enabling teachers to include appropriate use of ICT therefore aiding subjects to achieve NC requirements.
- To ensure that teachers use Computing & ICT as a tool for developing logical and creative thinking and to extend children's learning.
- To ensure that teachers and children alike understand the capabilities, limitations and potential dangers of using Computing & ICT. Teachers should have the opportunity to evaluate ways of teaching and learning to encourage and improve the use of ICT across the curriculum.
- The use of Computing & ICT enables children to become independent Computing Engineers.
- To use Computing & ICT as an aid to enhance learning in the classroom, for example, by the use of interactive whiteboards, iPads, digital cameras, virtual learning environments, and educational websites and applications.
- To develop children's skills in using hardware and software, both at home and at school.
- To continue developing positive attitudes towards Computing & ICT to increase pupil motivation.
- To ensure all pupils become 'digitally literate – able to use, and express themselves and develop their ideas through information and communication technology – at a level suitable for the future workplace and as active participants in a digital world.' (National Curriculum, Computing Programmes of Study, 2013)
- To support fully the National Curriculum aims for Computing, 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.

(National Curriculum, Computing Programmes of Study, 2013)

Teaching and Learning

The teaching of Computing at Corsham Primary School can be grouped into three main National Curriculum areas or objectives that are followed throughout the Curious Computing scheme of learning. These three main areas are:

- Creative Computing
- Programming and Coding
- Digital Research

Key Stage 1

- 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.

Key Stage 2

- 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.

At Corsham Primary School, we strive to extend pupils' opportunities beyond the National Curriculum and are committed to teaching how to use emerging technologies creatively as a Computing Engineer.

All teachers are responsible for the appropriate teaching and learning of Computing & ICT within their own class – challenging pupils appropriately, ensuring that all needs are met using a range of styles to develop Computing & ICT capability and to attend courses/INSET to support their delivery.

Regular CPD opportunities are offered to ensure all staff understand how to use Computing & ICT creatively to support teaching and learning across the curriculum.

Contribution to Other Subjects

- Bespoke software is used to support the teaching and learning of Computing & ICT in the Foundation Stage.
- The teaching of Computing & ICT will be integrated into our Enquiry Curriculum or other core subject learning. Staff are encouraged to link ICT in as many ways and lessons as possible to enhance teaching and learning experiences whilst encouraging pupils to be Computing Engineers.
- Computing & ICT is used to support other curriculum subjects. This is recorded in the school's Curriculum Framework in terms of ICT opportunities available and is updated regularly by the Coordinators for each subject, who monitor ICT being used in their own subject.

- Continual ongoing discussion and co-operation between subject leaders will enable Computing & ICT to be used effectively as a tool for teaching and learning.
- The teaching and learning of e-safety is taken extremely seriously at Corsham Primary School – it is highlighted regularly when using Computing & ICT and is taught at least once a year in every year group through Jigsaw, our scheme of learning for PSHEE. Please refer to the Acceptable Use Policy and Data Security Policy for more information.

Success Criteria

Planning

- Computing Units are organised into termly or half termly projects based on the new Corsham Primary School Curious Computing Curriculum Document. This development of Computing skills shows progression throughout Key Stages 1 and 2 whilst medium term planning allows for the cross-curricular use of ICT.
- All teachers should aim to plan Computing termly and weekly, as well as integrating ICT into other subjects where appropriate. The work is differentiated by task, by support and/or by outcome.
- Planning clearly identifies Computing & ICT learning objectives and pedagogical organisation.

Assessment

- Assessment is undertaken in accordance with the school policy and assessment opportunities are identified in each unit of work and carried out by individual teachers.
- Individual lessons are evaluated and achievements are recorded. Samples of children's work are assessed, levelled and moderated at least once every term and are kept by the Lead Computing Engineers in the subject portfolio recording progression throughout the school.
- Teachers record class progress throughout each year using Computing NC objectives. Children are assessed against NC levels using teacher judgements.
- Teachers report to parents informally at parent's evenings and an annual written report is provided which focuses on the attitude of the child to Computing & ICT skill and his/her competence in a variety of applications.

- RAG rated assessment results from each teacher are given to the Lead Computing Engineers and are kept in the attainment tracker folder ensuring a clear picture of attainment across the school is recorded and that progress of individuals, groups or classes can be tracked.
- RAG assessments are carried out and analysed at the end of the academic year.

Resources

It is essential that the organisation of resources reflects a demonstrable equality of access. The school's resources comprise of one computer suite at each site as well as a mobile trolley of iPads at each site - all with a variety of software and applications. The school utilises wireless broadband Internet access in all classrooms. Staff computers are linked to the school's 'Staff Share' network, allowing the use of file sharing between members of staff for planning, preparation and assessment purposes. There is video conferencing networking and equipment in both staffrooms. Both sites also have immersive spaces for interactive learning lessons, a computer suite and a class trolley of iPads.

- Software is installed on all the computers in each suite allowing a consistent approach across the school, and the school also uses a wide range of online materials.
- All members of staff and governors must agree to the school's Acceptable Use Policy before being allowed to use the Internet at Corsham Primary School.
- Pupils will need to read and agree to a child-friendly Acceptable Use Policy that is displayed in the computing suite at both sites before being allowed to use the Internet.
- Any faults or problems with the computers or hardware at school are emailed directly to the support team at Oakford. The school receives technical support from Oakford, who correct these faults where possible.

Monitoring and Evaluating

- Class teachers are expected to display learning demonstrating some use of Computing & ICT. Children save their learning on the school wireless pupil network, or upload it to their Seesaw Class Journal.
- The schools' Curriculum Framework is frequently reviewed by the Lead Computing Engineers and updated accordingly.

Health and Safety

All computer equipment is inspected annually for electrical faults. However, if potentially dangerous faults are found they must be reported immediately to the Head of School and the defective items withdrawn from use. Teachers must also be aware of the potential dangers from loose leads and cables.

Bibliography

The National Curriculum in England: Computing Programmes of Study (11 September 2013)

Equal Opportunities

All children, regardless of gender, ability, physical or mental capabilities, social and cultural backgrounds have an equal entitlement to Computing & ICT education. Children with speech and language difficulties are supported with Computing & ICT resources.

Where possible, teachers should also utilise technology to support pupils with educational needs through interventions both in and out of class.

When writing and reviewing this policy staff have completed an Equality and Diversity Impact Assessment in order to ensure it complies with equality obligations outlined in antidiscrimination legislation. We believe the policy positively reflects the aims and ambitions identified in Corsham Primary's Single Equality Scheme.