

Buckshaw Primary School



Computing Policy

Aims

- Provide a relevant, challenging and enjoyable curriculum for IT and computing for all pupils.
- Meet the requirements of the national curriculum programmes of study for IT and computing.
- Use IT 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 IT and computing throughout their later life.
- To enhance learning in other areas of the curriculum using IT and computing.
- To develop the understanding of how to use IT and computing safely and responsibly.

National Curriculum Requirements

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 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 Curriculum

Our teaching and learning of the skills, knowledge and understanding in computing will encompass the National Curriculum:

- Using search technologies effectively
- Using programmes to collect, display, analyse and interrogate information
- Select, use and combine a variety of software on a variety of digital resources – using a range of equipment, evaluating the use of different methods and software
- Control and simulate - Using the computer to model real and imaginary places and events, using programs to control devices (e.g. changes in temperature, security sensors)
- Exchanging and sharing information
- Communicate words, pictures and sounds.
- Reviewing, modifying and evaluating work as it progresses
- Evaluating work.

Although the requirements for computing capability are laid out in the statutory orders for computing, it is not intended to be viewed as an isolated area of the curriculum. It is to be considered as a cross - curricular theme, contributing to all National Curriculum subjects. The Programme of Study can be seen as a framework to organise and monitor the experiences of computing for pupils. To ensure full coverage Buckshaw follows the Purple Mash scheme of work with the addition of directed Online Safety sessions.

Pupils are required to use computing confidently and purposefully. In both Key stage One and Two Computing is taught weekly by the teacher and iPad/laptops available for each child. At the start of each session children will 'activate prior learning' by completing a short activity which enables children to recall and reflect on previous learning within a unit of work. Throughout each unit of work children will learn a selection of key vocabulary. These terms will be displayed in the classroom and referred to during activating prior learning tasks. Children will apply all key vocabulary within their work (both spoken and written activities.)

We also ensure that the curriculum for EYFS covers the goals set out in the Development Matter framework. Although there is no specific reference to computing in the framework, there are opportunities within each area of the framework to enable practitioners to effectively prepare children for studying the computing curriculum.

Online Safety

The school's approach to Online Safety is outlined in the Online Safety Policy. Online Safety is taught throughout the computing curriculum at Buckshaw and class discussions take place within each computing lesson.

Resources

The school acknowledges the need to continually maintain, update and develop its resources and to make progress towards a consistent, compatible pc system by investing in resources that will effectively deliver the strands of the national curriculum and support the use of IT and computing across the school. To ensure IT can be delivered across the whole School, every classroom currently has access to the following set of IT equipment:

- A Teacher Laptop
- A Teacher iPad
- An Interactive whiteboard with separate sound bar.
- A class set of laptops
- A class set of iPads
- Viewer
- Relevant and up-to-date apps on all devices
- Programable devices

Security

Parents, pupils and staff will be made aware of the 'Acceptable Use Policy' and of the 'School Rules for Responsible Use of equipment and the Internet'; they will understand the consequence of any misuse. The agreed rules for 'Responsible Use of equipment and the Internet' will be displayed in all computing areas. Children will read discuss and sign a copy of the Acceptable Use Policy at the beginning of each year. A copy of the Acceptable Use Policy will be sent to the parents of all pupils at the start of the year. The technician will be responsible for regularly updating anti-virus software on all computers linked to the network. Class teachers are responsible for regularly updating anti-virus software on their laptops. No CD ROMs or memory sticks from outside school should be allowed in machines without permission from the Computing Subject Leader or technician. All equipment is security marked and noted in the school inventory.

Inclusion

We recognise that in all classes children have a wide range of computing experiences and abilities. We ensure that the computing Curriculum is accessible by all children, including SEND pupils, by making suitable adjustments in order to tailor the curriculum to ensure opportunity of access to all. Learning opportunities are varied and are set for all children by matching the challenge of the task to the ability of the child.

Assessment. Recording and Reporting (also see Assessment Policy)

The following strategies are in place:

- The programmes of work identify clear opportunities for the monitoring and record keeping of pupils' progress.
- A clear recording mechanism where children upload their work into their own folder on Purple Mash.
- Programmes of work include related tasks that assist the teacher to assess the pupils' progress and attainment in Computing.
- Progress in Computing will be reported at least once a year.

Monitoring

- The monitoring of Computing is the responsibility of the subject leader and is carried out through the following methods:
- Pupil conferencing/ pupil voice questionnaires/pupils work on Purple Mash.
- Classroom observation
- Review of the learning environment: classroom displays, vocabulary boards.
- Discussions with class teachers around the teaching and assessment of Computing.

Parental Involvement

Parents are encouraged to support the implementation of IT and computing where possible by encouraging use of IT and computing skills at home during home-learning tasks and through the school website. They will be made aware of e-safety and encouraged to promote this at home.

Legislation and guidance

This policy reflects the requirements of the National Curriculum programmes of study for English, which all maintained schools in England must teach. It also reflects requirements for inclusion and equality as set out in the Special Educational Needs and Disability Code of Practice 2014 and Equality Act 2010 and refers to curriculum-related expectations of governing boards set out in the Department for Education's Governance Handbook. In addition, this policy acknowledges the requirements for promoting the learning and development of children set out in the Early Years Foundation Stage (EYFS) statutory framework.