



Broomhaugh and Corbridge Church of England First Schools

Computing

Inspired by Jesus, we make a difference in God's world by being 'the best that we can be'.

Charlotte Sommerville
Computing Lead

Introduction

This policy applies to all staff, pupils and volunteers across Reception to Year 4. The Headteacher and Charlotte Sommerville Subject Leader are responsible for policy implementation and for ensuring staff receive appropriate training. Class teachers are responsible for daily implementation; support staff must follow agreed modelling when working with pupils. Governors (or the governing committee) will receive an annual report on Computing standards as part of Computing curriculum monitoring.

Intent

At our school, we aim to provide an engaging, inclusive and progressive Computing curriculum that prepares pupils for an increasingly digital world.

Through the use of the **Purple Mash Computing Scheme of Work**, pupils develop knowledge, skills and understanding across Computer Science, Information Technology and Digital Literacy. They are encouraged to become confident, creative and responsible users of technology who can apply their learning across the curriculum and in everyday life.

We aim to ensure that all pupils, regardless of ability or additional need, have the opportunity to access and succeed in Computing.

Aims

Through Computing, pupils will:

- Develop computational thinking, problem-solving and programming skills.
- Become confident, creative and competent users of technology.
- Understand the principles of Computer Science, Information Technology and Digital Literacy.
- Use technology purposefully across the curriculum.
- Develop an understanding of how technology affects the world around them.
- Learn to use technology safely, responsibly and respectfully.
- Develop independence, collaboration and resilience when using technology.

Where pupils have identified additional needs, class teachers and the SENCo will work together to ensure appropriate support and adaptations are in place.

Subject Content

The Computing curriculum is taught in line with the **National Curriculum Programme of Study** and is supported by the **Purple Mash Computing Scheme of Work**.

The curriculum covers three key areas:

- **Computer Science** – algorithms, programming, computational thinking, problem-solving and debugging.

- **Information Technology** – using technology to create, organise, store, manipulate and present digital information.
- **Digital Literacy** – using technology effectively, safely, responsibly and respectfully.

Online safety is an integral part of the Computing curriculum. Pupils will learn to:

- Keep personal information private.
- Recognise inappropriate content and behaviour.
- Communicate respectfully online.
- Understand how to report concerns and seek help.
- Understand the risks associated with online activity, including cyberbullying.
- Use technology safely and responsibly.

Online safety is reinforced through Computing, PSHE, worship and school events such as **Safer Internet Day**.

Curriculum Organisation

EYFS

In the Early Years, pupils are given opportunities to explore and use technology purposefully through play and adult-directed activities.

Children may use a range of technology, including tablets, computers, cameras and programmable toys. Activities will develop skills such as sequencing, problem-solving, communication and understanding cause and effect.

Technology will be used appropriately alongside practical, physical, social and outdoor learning experiences.

Key Stage 1

In Key Stage 1, pupils develop their understanding of how technology can be used to create, organise and communicate information.

Through the Purple Mash scheme, pupils develop early programming and computational thinking skills, including creating and following algorithms, sequencing instructions and beginning to debug simple programs.

Pupils also develop their ability to use a range of digital tools to create, save and retrieve work. Online safety is taught progressively, helping pupils understand how to use technology safely and responsibly.

Key Stage 2

In Key Stage 2, pupils build on their previous knowledge and develop greater independence and confidence when using technology.

The Purple Mash scheme provides opportunities for pupils to develop more advanced programming and computational thinking skills, including repetition, selection, variables and debugging.

Pupils use technology to create, edit, organise and present increasingly complex digital content. They develop an understanding of networks, digital systems and how technology is used in the wider world.

Online safety continues to be developed progressively, with pupils encouraged to make responsible choices and understand the wider implications of their digital activity.

Teachers will follow the Purple Mash scheme to ensure appropriate coverage and progression across each year group. Lessons may be adapted to meet individual needs, and meaningful links with other curriculum areas will be made where appropriate.

Assessment

Assessment is ongoing and is used to inform teaching and monitor pupils' progress.

Teachers assess pupils through:

- Observation of pupils during lessons.
- Questioning and discussion.
- Review of pupils' digital work.
- Assessment of knowledge and practical skills.
- Assessment and tracking tools.

Teachers will identify pupils who require additional support or challenge and adapt teaching accordingly. Assessment information will be shared with the next class teacher to support continuity and progression.

Health and Safety

Pupils will be taught to use Computing equipment safely and responsibly. They will:

- Handle equipment with care.
- Follow instructions and school rules.
- Report damaged or faulty equipment.
- Keep food and drinks away from electrical equipment.
- Use appropriate working positions when using screens.
- Take appropriate breaks from screen use.
- Use headphones at a safe volume.

Staff will ensure that equipment is suitable for pupils and that appropriate supervision is provided. Faulty or damaged equipment will be reported and removed from use where necessary.

Role of the Computing Coordinator

The Computing Coordinator is responsible for leading and developing the Computing curriculum across the school. They will:

- Ensure the curriculum provides appropriate coverage and progression.
- Support staff in using the Purple Mash Computing Scheme of Work effectively.
- Monitor planning, teaching, assessment and pupils' work.
- Monitor pupils' progress and identify areas for development.
- Support colleagues with subject knowledge and confidence.
- Identify staff training and professional development needs.
- Monitor and review Computing resources.
- Liaise with technical support providers regarding equipment and technical issues.
- Keep up to date with developments in Computing and online safety.
- Work with the leadership team to identify priorities for future development.

Equal Opportunities and Race Equality Policy

All children regardless of their race, sex, religion, religious belief or ability will be given equal opportunities to develop their knowledge, skills and understanding in Computing.

Where pupils have identified additional needs, class teachers and the SENCo will refer to the adapting and enabling documentation and make suitable adaptations.

This policy will be reviewed every two years by the Charlotte Sommerville Subject Leader and approved by the governing body. Annual monitoring outcomes will be reported to the Curriculum Committee and summarised in the Headteacher's report to governors.