



**Roe Lee Park
Primary School & Nursery**

Free to Flourish

***Computing
Policy***

1. Statement of Intent

Here at Roe Lee, we aim to ensure that all our children are confident and conscientious users who are well equipped to face the challenges of an increasingly digital society. We follow the national curriculum to ensure all our pupils;

- 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.
- opportunities will be made to develop our cross curricular themes of enquiry and vocabulary development.

Computing lessons are taught discretely once a week across school, where the pupils have access to the technology suite. Further use of computing resources are provided in the wider curriculum allowing the children to practice key skills.

2. Legal Framework

This Policy will have regard to the following statutory and non-statutory guidance:

- Computing programmes of study: key stages 1 and 2 – September 2013.

This policy links in with the following other school policies:

- Primary Maths Policy
- Homework Policy
- Social Media Policy
- Online Safety Policy

3. Roles and responsibilities

The head teacher will:

- Ensure that there is a Primary Computing Policy in place, and that it is regularly reviewed and updated to take into account new developments, both to the primary computing curriculum and to ICT.
- Ensure that the Primary Computing Policy, as written, is disseminated to the computing coordinator, teaching staff and parents, for implementation.
- Hold the computing coordinator to account for the effective implementation of the Primary Computing Policy, including budget expenditure.
- Intervene where it is apparent that the Primary Computing Policy is not being implemented according to its provisions.

The computing coordinator will:

- Manage the computing budget, and keep appropriate records of expenditure in order to review them and make suggestions for the future.
- 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 head teacher and other stakeholders, such as parents, informed about our Roe Lee's 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 in-service training.

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 computers and ICT across the curriculum.
- Maintain up-to-date records of both formative and summative assessment.
- Tailor lesson delivery according to pupils' respective abilities.

4. Teaching and Learning

- Teaching of digital literacy and ICT is largely delivered through discrete computing lessons but certain areas may be covered during cross curricular subjects.
- The core requirements of the KS1 and KS2 computing programmes of study, such as coding/programming, will be delivered through the 'Switched on Computing' scheme of work, during a dedicated weekly computer lesson in our technology suite.
- We have a large number of desktop computers, laptops and tablets, as well as various additional technologies to support the delivery of the primary computing curriculum. Full site licenses for all relevant software have also been purchased.
- An audit of resources is taken on an annual basis to ensure that our computing provision remains appropriate to the latest requirements of the KS1 and KS2 primary computing programmes of study.
- Web filters are kept up-to-date in order to ensure that pupils don't access inappropriate materials.
- Obsolete or broken machines are sold, repaired or, where repair is not possible or cost-effective, scrapped in accordance with data protection requirements.
- A service level agreement (SLA) with Crystal Business Solutions is in place to support the computing coordinator to fulfil this role.

- An SLA with Blackburn with Darwen is in place, and all computing-related devices and related applications have access to the internet. This SLA is reviewed annually to ensure that the current package remains sufficient for purpose, and that it continues to represent the best value for money.

5. The Curriculum: EYFS/KS1/KS2

Early years foundation stage (EYFS)

Although computing is not a statutory part of the EYFS, we will ensure that children of reception age receive a broad, play-based experience of computing through the use of new technologies.

Key stage 1

Pupils will be taught to:

- Understand what algorithms are, and how they are implemented.
- Create and debug simple programs.
- Predict the behaviour of simple programs.
- Create, organise, store, manipulate and retrieve digital content.
- Recognise common uses of ICT beyond school.
- Use technology safely and respectfully, keeping personal information private, and to identify where to go for help and support when they have concerns online.

Key stage 2

Pupils will be taught to:

- Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems, and solving problems.
- Use sequence, selection, and repetition in programs.
- Work with variables and various forms of input and output.
- Explain how some simple algorithms work, and how they can detect and correct errors.
- Understand computer networks, how they can provide multiple services, and the opportunities they offer for communication and collaboration.
- Use search technologies, understand how results are selected and ranked, and be able to critically evaluate digital content.
- Select, use and combine a variety of software on a range of devices to design and create programs, systems and content that accomplish specific goals.
- Use technology safely, respectfully and responsibly, recognise acceptable behaviour and identify a range of ways to report online concerns.

6. Planning

Teachers are provided with the 'Switched on Computing' scheme of work, which includes full detailed lesson plans. However, to ensure we provide suitable learning opportunities for all pupils by matching the challenge of the task to the individual needs and abilities of each pupil, teachers are encouraged to adapt these plans as they see fit to suit their own class.

7. Assessment and Recording

Pupils' knowledge and understanding of the primary computing curriculum will be assessed according to the provisions outlined in our Assessment Policy.

Ongoing formative assessment monitors pupil performance and progress during learning; the outcomes of which we will use to ensure that work matches the individual needs and abilities of pupils.

Summative assessment reviews pupils' progress and abilities, and will be undertaken at the end of each unit, term and school year using a combination of target tracker and the teacher's own professional judgement.

Samples of work will be kept in class folders on the school network, within relevant class photographs stored in the computing evidence folder on sharepoint.

8. Cross Curricular Links

Whilst computing as a subject area is taught as a discreet subject at Roe Lee Park Primary, opportunities to practice and demonstrate computing skills should be provided in all areas of the curriculum. Various equipment is available, in addition to the technology suite, for use in the wider curriculum. All classrooms are equipped with additional computers for this reason.

9. Homework

Computing resources support both the English (Cracking Comprehension) and Maths (Times Table Rockstars) curriculums with regards to homework. The technology suite is made available at lunchtimes for children to use who are without internet access at home

10. Equal opportunities

All pupils will have equal access to the entire Computing curriculum.

- Gender, learning ability, physical ability, ethnicity, linguistic ability and/or cultural circumstances will not impede pupils from accessing all Computing lessons.
- Where it is inappropriate for a pupil to participate in a lesson because of reasons related to any of the factors outlined above, the lessons will be adapted to meet the pupil's needs and alternative arrangements involving extra support will be provided where necessary.
- All efforts will be made to ensure that cultural and gender differences will be positively reflected in all lessons and teaching materials used.
- Roe Lee Park Primary aims to provide more academically able pupils with the opportunity to extend their thinking through extension activities such as Killer Questions.

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