



Kirk Langley Church of England Primary School

Computing Policy

Kirk Langley is a Church of England Primary School and our family believe that 'Every Child Can Shine.' Our visions and values, built on the living Gospel of Christ within daily life, are at the core of everything we do. They underpin our teaching and learning and provide an environment which prepares our pupils in being respectful, confident, thriving citizens.

Daniel 12:3

'Those who have insight will shine brightly like the brightness of the expanse of heaven, and those who lead the many to righteousness, like the stars forever and ever.'

We aim to provide a thriving, inspiring and stimulating learning environment where children achieve the very best they are capable of because all the staff value their different learning styles. Kirk Langley Church of England Primary School is committed to Christian values where children, parents/carers and our community know us by our actions.

Within a Christian ethos we aim to:

- Promote a positive attitude to life-long learning, nurturing the development of self-esteem; leading to aspirational, independent learners that are prepared to be challenged and take risks in a diverse and ever changing world.
- Provide the children with valuable experiences and opportunities, through a broad, balanced and exciting curriculum, where learning is purposeful and engaging.
- Use a variety of teaching strategies and resources effectively and creatively; encouraging each child to progress and attain to the highest possible standards, in relation to their age and ability.
- Strongly believe in the partnership of parental involvement in the education of our pupils.

- Demonstrate and foster respect for ourselves and others within the school, local community and the global community.
- Respect the belief of others and celebrate cultural diversity.
- Encourage spiritual and moral values.
- Explicitly promote the fundamental British values of democracy, the rule of law, individual liberty and mutual respect and tolerance of those with different faiths and beliefs through a 'living' curriculum.
- Value each child as an individual within the school and respect personal beliefs.

Rationale

At Kirk Langley Church of England Primary School, we recognise that pupils are living in a rapidly changing world, in which computing is playing an ever-increasing role. We aim, therefore, to equip children with the skills to adapt to new technology and to give them confidence to use computing to further their learning and assist them in everyday life. In doing so, all pupils will have access to computing equipment and resources, according to their ability and age range.

At Kirk Langley Church of England Primary School, , we believe that increased computing skills promote independent learning and gives greater access to a wide range of ideas and experiences. It enhances the quality of children's work across the curriculum and should enhance and enrich the learning process.

Aims of Computing Curriculum

- To develop children's individual computing capability and understanding
- To ensure all children know how to stay safe online
- To enhance teaching and learning in other areas of the curriculum by cross curricular use of computing
- To develop computing as a tool for learning and investigation
- To equip pupils with the confidence and capability to use IT throughout their education, home and further work life.
- To recognize the potential, and deepen the necessity of computing in everyday life
- To stimulate interest in new technologies

Implementation of Policy

- We have used the best research to create a well sequenced and progressive curriculum map containing the key concepts children need to be procedurally fluent and to work and think like computing professionals.

The key concepts in computing we plan a progression for are as follows:

- Problem solving and logical thinking
- Creative Content
- Digital literacy

At Kirk Langley Church of England Primary School, to enhance the teaching and learning of all curriculum areas within the school, teachers employ a range of strategies including:

- Demonstrating to the whole class/group using the IWB.
- Discussion with the whole class/group.
- Individual or paired working.
- Collaborative group work.
- Encouraging pupils to demonstrate new skills to others

At Kirk Langley Church of England Primary School, the computing curriculum incorporates cross curricular links and discrete computing skills. Computing should be taught as part of our creative curriculum, while still teaching the discrete skills required. Children in Key Stage 1 and Key Stage 2 should all spend at least 1 hour per week studying computing. Children will spend additional time using computing to support other subjects. As a small school Staff can alternate Computing with other Foundation subjects.

At Kirk Langley Church of England Primary School, we recognise the need for children to understand the purpose of their work and therefore we take every opportunity to share their computing work.

At Kirk Langley Church of England Primary School, the computing curriculum provision covers the following topic areas (across all year groups);

- Text and Multimedia
- Images, Video and Animation
- Sound
- Electronic Communication
- Digital Research
- Data Handling
- Data Logging
- Logo and Control
- Simulations and Spreadsheets
- E-safety

At Kirk Langley Church of England Primary School, children will be encouraged to evaluate both their work and the computer effectiveness. The nature of computing as a tool means that there will be many opportunities for links with other subjects.

Teachers will plan some activities which emphasise the development of computing capability and others which support the subject being taught.

In order to ensure progression and continuity throughout the school, the school has developed a curriculum map which outlines curriculum coverage, progression and context of computing as a discreet subject and across the curriculum.

Expectation in COMPUTING

At the end of **KS1** children should:

- 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.

At the end of **KS2** children should:

- 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.

Health and Safety

At Kirk Langley Church of England Primary School, equipment is maintained to meet the agreed safety standards. Children will **not** be given the responsibility of plugging in ICT equipment.

Age appropriate safety rules are displayed in the learning environment. Food and drink should not be consumed near ICT equipment.

It is the responsibility of staff to ensure that classroom ICT equipment is stored securely, cleaned regularly and that their class or themselves leave the ICT Suite clean and tidy after use.

Staff should ensure that the children are aware of the dangers of continuous use (e.g. Eye/wrist strain etc).

An adult should always supervise children when they are accessing information via the Internet. Internet filtering is provided by the Local Authority.

E-Safety

At Kirk Langley Church of England Primary School, staff and pupils are made aware of the importance of e-safety and sign an acceptable use agreement on entry to school and a Key Stage 2.

Staff, pupils or parents with concerns about e-safety are to contact the Headteacher/DSLs if they have any concerns.

Inclusion and Equal Opportunities

At Kirk Langley Church of England Primary School, the computing curriculum is concerned with the learning and participation of all pupils.

At Kirk Langley Church of England Primary School, we aim to provide suitable learning opportunities regardless of gender, ethnicity or home background.

Regular assessment of pupil needs and understanding plays a vital role here as does the provision of appropriate resources, the internet and our whiteboards offer a wealth of materials that can be matched to suit individual or group needs, enabling all pupils to develop their computing skills.

At Kirk Langley Church of England Primary School, the computing subject leader is responsible for

- Overseeing the implementation of the computing curriculum
- Monitoring the learning and teaching
- Ensuring the assessment is relevant and informative
- Making purchasing decisions

- Ensuring all staff are appropriately trained in both COMPUTING hardware and software
- Keeping up to date with developments in computing
- Liaising with the technician
- Observing computing lessons
- Monitoring / supporting computing planning
- Preparing policy documents
- Advising colleagues and helping to develop expertise
- Liaising with the staff team
- Contributing to staff computing INSET training

Assessment

At Kirk Langley Church of England Primary School, children should be assessed against their progress in understanding and applying computing against the curriculum map. This will be self-evident from the work produced in a situation where no teacher support is given once a task has been assigned

Disability Equality Impact Assessment

This policy has been written with reference to and in consideration of the school's Disability Equality Scheme. Assessment will include consideration of issues identified by the involvement of disabled children, staff and parents and any information the school holds on disabled children, staff and parents.