



St. Andrew's CE Junior Computing Policy

Introduction

This policy aims to outline the teaching, organisation and management of Computing at St. Andrew's C of E Junior School. The use of a range of different technologies is an integral part of the National Curriculum and is an important study skill for life. In an increasingly digital world there now exists a wealth of software, tools and technologies that can be used to communicate, collaborate, express ideas and create digital content. At St. Andrew's we recognise that pupils are entitled to a broad and balanced computing education with a structured, progressive, approach to the learning how computer systems work, the use of IT and the skills necessary to become digitally literate and participate fully in the modern world. It can be used to acquire, organise, store, manipulate, interpret, communicate and present information. At St. Andrew's School, we aim to ensure that children have access to the requisite hardware and software, using a structured, safe and progressive approach. Amongst the benefits of teaching computing, the potential to motivate and enthuse pupils, help focus and concentrate as individuals or part of a group, and meet the needs of individual learners are key.

Aims

Through the teaching of Computing at St. Andrew's we aim for all children to:

- Develop a sound understanding of how to use technology safely, respectfully and responsibly.
- Develop a positive and enthusiastic attitude towards Computing.
- Provide a broad, balanced, challenging and enjoyable curriculum for all pupils which meets the requirements of the National Curriculum programme of study for KS2.
- Develop pupil's computational thinking skills which will benefit them throughout their lives.
- Develop an understanding of computer networks including the internet.
- Develop an ability to use logical reasoning to design, write and debug programs.
- Develop a deep and lasting interest in Computing.

The national curriculum for computing aims to ensure that all pupils:

By the end of Key Stage 2, pupils should be able to:

- 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 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
- Use technology safely, respectfully and responsibly; know a range of ways to report concerns and inappropriate behaviour
- Select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals, including collecting, analysing, evaluating and presenting data and information

Rationale

The school believes that IT, computer science and digital literacy:

- are essential life skills necessary to fully participate in the modern digital world.
- allows children to become creators of digital content rather than simply consumers of it.
- provides access to a rich and varied source of information and content.
- communicates and presents information in new ways, which helps pupils understand, access and use it more readily.
- can motivate and enthuse pupils.
- offers opportunities for communication and collaboration through group working
- has the flexibility to meet the individual needs and abilities of each pupil.

Intent

Our vision and Christian Values form the basis for the curriculum we deliver and is relevant to the context of our school setting. We believe Character Education is vital in nurturing the whole child, encouraging independence and self-reflection and a well-balanced and informed view of Global issues.

Planning and Implementation

Our values driven curriculum enables us to adapt and deliver the Teach Computing Scheme to ensure the Computing curriculum is delivered, in line with the National Curriculum, in an exciting and relevant way enabling the pupils to gain an understanding of how computers can enhance our lives and be used in every aspect of education whilst also allowing for progression throughout the years. Lessons are designed to enable pupils to achieve stated objectives from each unit. Pupil progress towards these objectives will be recorded by teachers. Staff will follow the Teach Computing Long Term Plans and Medium Term plans with objectives set out in the national curriculum, adapting where necessary to best meet the needs of their pupils.

Inclusion

At St. Andrew's, we plan to provide for all groups of pupils to achieve, including; both boys and girls, higher achievers and those with additional needs or disabilities, pupils from all social and cultural backgrounds, children who are in care and those subject to safeguarding, those who may qualify for Pupil Premium funding, pupils from different ethnic groups and those from other linguistic backgrounds. For more information on inclusion, please refer to our school's SEND Policy.

Resources and access

In order to maintain an effective computing capability, the school will invest in appropriate resources, training and technical support. Equipment comprises:

Each classroom has a minimum of networked 1 PC and an IWB with sound and video facilities.

There are 3 laptop trolleys in school containing a) 31 Laptops and b) 50 Chrome books

Each class has timetabled access for teaching of specific computing skills, mostly in an afternoon and timetabled slots to use the computers in a morning to enhance the learning of core subjects.

The school has a computing technician who is in school one day each week.

The Computing co-ordinator liaises with a dedicated computing governor within the school.

Health and safety

The school recognises the health and safety issues involved in children's use of computing. All electrical appliances in school are PAT tested as appropriate. It is advised that staff should not routinely bring their own electrical equipment in to school. Each class teacher has one laptop they are able to use for work purposes. The testing need also applies to any equipment brought in to school by, for example, people running workshops, activities, etc. and it is the responsibility of the member of staff organising the workshop, etc. to advise those people. All staff should visually check electrical equipment before they use it and take any damaged equipment out of use. Damaged/ unsuitable equipment or software should then be reported to the ICT technician, computing co-ordinator or head teacher to arrange for repair, re-installation or disposal. With the advancement of technology both within and outside the school community, online safety is a priority. It is the teachers' responsibility to have previously checked any websites they may be using to support and enhance learning across the curriculum, whilst also educating the pupils to become independent learners and take responsibility for their safety online through educating them.

Security

The ICT and computing technician will be responsible for regularly updating anti-virus software.

Use of ICT and computing will be in line with the school's 'acceptable use policy'. All staff, volunteers and children must sign a copy of the schools AUP, and parents are made aware of the 'acceptable use policy'. Please refer to our school's Online-Safety policy for more details.

All pupils and parents will be aware of the school rules for responsible use of ICT and computing and the internet and understand the consequence of any misuse.

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