St Peter's Catholic Academy Computing and ICT Policy

OUR MISSION

"Together One Family, One Community in Christ."

St. Peter's Catholic Academy recognises that gospel values and the teachings of the church are central to the life of the school. The school aims to create an environment where children can develop physically, emotionally, socially and morally fostering co-operation and communication between home, school, parish and the local community. Together we hope to lead our children towards understanding, tolerance, justice and sensitivity to the needs of others.

Introduction

The use of information and communication technology is an integral part of the national curriculum and is a key skill for everyday life. Computers, tablets, programmable robots, digital and video cameras are a few of the tools that can be used to acquire, organise, store, manipulate, interpret, communicate and present information. At St Peter's Catholic Academy we recognise that pupils are entitled to quality hardware and software and a structured and progressive approach to the learning of the skills needed to enable them to use it effectively. The purpose of this policy is to state how the school intends to make this provision.

Aims

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

Rationale

The school believes that ICT and computing:

- ✓ Gives pupils immediate access to a rich source of materials.

- ✓ Can present information in new ways which help pupils understand, access and use it more readily.
- ✓ Can motivate and enthuse pupils.
- ✓ Can help pupils focus and concentrate.
- ✓ Offers potential for effective group working.
- ✓ Has the flexibility to meet the individual needs and abilities of each pupil.

Early Years

- ✓ It is important in the foundation stage to give children a broad, play-based experience of ICT in a range of contexts, including outdoor play. ICT is not just about computers. Early Years learning environments should feature ICT scenarios based on experience in the real world, such as in role play. Children gain confidence, control and language skills through opportunities to use the whiteboard or programme a toy. Recording devices can support children to develop their communication skills. This is particularly useful with children who have English as and additional language.

Key Stage 1

By the end of key stage 1 pupils should be taught to:

- ✓ 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.

Key Stage 2

By the end of key stage 2 pupils should be taught 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 a simple algorithm works 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.

Resources and Access

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 ICT and computing across the school:

Teachers are required to inform the ICT and computing leader of any faults as soon as they are noticed.

- ✓ Every classroom from nursery to year six has a laptop connected to the school network and an interactive TV with sound, DVD and video facilities.
- ✓ There is a laptop trolley containing at least 30 laptops with internet access available to use in classrooms.
- ✓ There are 10 ipad minis for use in EYFS, and at least 30 ipads available for use in key stage 1 and 2.
- ✓ There are Kindles available to use in classrooms.
- ✓ Pupils may use ICT and computing independently, in pairs, alongside a TA or in a group with a teacher.
- ✓ The school has an ICT and computing technician who is in school one day per week.
- ✓ A governor will be invited to take a particular interest in ICT and computing in the school.

Curriculum Delivery

The core requirements of the KS1 and KS2 computing programmes of study, such as coding/programming, will be delivered using the Switched On Computing scheme of work, during a dedicated weekly computing lesson in class.

Teaching of digital literacy and ICT is largely delivered through weekly computing lessons and cross-curricular subject links.

Inclusion

At St Peter's we plan to provide for all pupils to achieve, including boys and girls, higher achieving pupils, those with SEN, pupils with disabilities, pupils from all social and cultural backgrounds, children who are in care and those subject to safeguarding, pupils from different ethnic groups and those from diverse linguistic backgrounds.

We provide suitable learning opportunities for all pupils by matching the challenge of the task to the individual needs and abilities of each pupil.

Assessment

Summative assessment reviews pupil' progress and abilities, and will be undertaken at the end of each unit using teacher assessments. Children are assessed against each Switched On Literacy unit outcomes for their year group and are also assessed against digital literacy and ICT skills for their year group.

Health and Safety

The school is aware of the health and safety issues involved in children's use of ICT and computing. All electrical appliances in school are tested accordingly. It is advised that staff should not bring their own electrical equipment in to school but if this is necessary, then the equipment must be pat tested before being used in school. This also applies to any equipment brought into 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 equipment should then be reported to the ICT technician, bursar or head teacher who will arrange for repair or disposal.

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 (AUP Agreement). All staff, volunteers and children must sign a copy of the schools AUP.
- ✓ Parents will be made aware of the AUP.
- ✓ All pupils and parents will be aware of the school rules for responsible use of ICT and computing and the internet and will understand the consequence of any misuse.
- ✓ The agreed rules for safe and responsible use of ICT and computing and the internet will be displayed in all ICT and computing areas.

Policy Date- October 2023