



St Francis Catholic Primary School

Computing and ICT

Head Teacher Signature: _____ Date: _____

Chair of Governors Signature: _____ Date: _____

Written: Autumn 2023

This document will be reviewed as required and in line with legal requirements.

School Mission Statement

‘I am a sign of God’s love’

At St. Francis we love, learn and grow in the footsteps of Jesus and are active signs of God’s love through praying, respecting and serving others.

INTRODUCTION

At St Francis Catholic Primary School, Computing and the use of ICT are central to the education of all pupils.

In line with the curriculum (DfE, 2014), we give each pupil the opportunity to apply and develop their technological skills and understanding across a wide range of learning activities.

Pupils are encouraged to develop a confident and safe approach to Computing and the use of ICT, whilst understanding the potential of new technologies.

OBJECTIVES

The National Curriculum 2014 states that a “high quality computing curriculum equips children to use computational thinking and creativity to understand and change the world”.

Computer Science is embedded into the whole curriculum and taught using a thematic approach. Pupils at St Francis Catholic Primary School, pupils are taught the principles of information and computation; digital systems; and how to put this knowledge to use through programming. Pupils will be equipped to use Computer Science to create programs, systems and a range of content.

By studying Computing at St Francis, pupils will become digitally literate. They will be able to express themselves effectively and develop their ideas through ICT, at levels suitable for their academic stage, so that they are well-prepared to shine in the future workplace and as active participants in a digital world.

Pupils will acquire and develop the skills associated with Computer Science in order to:

- ✓ design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by splitting them up into smaller parts;
- ✓ use sequence, selection and repetition in programs; work with variables, inputs and outputs;
- ✓ use logical reasoning to explain how some algorithms work and detect and correct errors in algorithms and programs;
- ✓ understand computer networks including the internet, and how they can provide multiple services such as the world-wide web.

AIMS

At St Francis Catholic Primary School, we aim to develop pupils’ knowledge, understanding, and skills so that they can:

- understand and apply the fundamental principles and concepts of computer science;
- analyse problems in computational terms and have repeated practical experience of writing computer programs in order to solve such problems;
- evaluate and apply ICT, including new or unfamiliar technologies, to solve problems analytically;
- be responsible, competent, confident and creative users of ICT;
- use ICT safely.

THE CURRICULUM

At school, knowledge, understanding and skills in Computing and ICT are built up and developed in each year group, from Nursery to Year 6.

The Foundation Stage (Reception)

In Reception, pupils will:

- know how to operate simple equipment, e.g. turn on a CD player and use a remote control;
- show an interest in technological toys with knobs or pulleys, or real objects such as cameras or mobile phones;
- show skill in making toys work by pressing parts or lifting flaps to achieve effects such as sound, movements or new images;
- know that information can be retrieved from computers;
- complete a simple program on a computer;
- use ICT hardware to interact with age-appropriate computer software;
- recognise that a range of technology is used in places such as homes and schools;
- select and use technology for particular purposes.

Key Stage 1

In Years 1 and 2, children will:

- understand what algorithms are and how they are implemented as programs on digital devices; they will also understand 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 ICT outside the school context;
- use technology safely and respectfully, keeping personal information private; they will be able to identify where to go to for help and support when they have concerns about content or contact on the internet or other online technologies.

Key Stage 2

In Years 3, 4, 5 and 6, pupils will:

- design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems and solving 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 worldwide 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.

PLANNING

Early Years Foundation Stage

Teaching plans follow the Early Years Foundation Stage Curriculum: 'Understanding the World – Technology'.

Key Stage 1 & 2

Computing is planned by each class teacher in accordance with the National Curriculum and it is taught across the curriculum with at least one 45 minute stand-alone lesson each week. Teachers will use MrPICT D.A.R.E.S Scheme of Work alongside other resources, including Twinkl, Teach Computing, Barefoot Computing.

PROGRESSION AND CONTINUITY

At St Francis Catholic Primary School, we plan progressive, well-differentiated learning activities in Computing and ICT so that they build on pupils' prior learning and embed skills for life.

CURRICULUM LINKS

Please also see other subject policies, Social Media Policy, Online Safety Policy, Anti-Bullying Policy and Acceptable Use Policy.

Computing must be applied across the full range of subjects in the school's curriculum.

Please also refer to the 'Curriculum Overview Plans' on the school's website.

EQUAL OPPORTUNITIES

Please refer to the school's Equal Opportunities Policy.

We support all pupils in Computing and ICT according to their needs, with due regard to gender, race, religious belief, cultural background and/or disability.

SPECIAL EDUCATIONAL NEEDS

Please refer to the school's Special Educational Needs Policy (including the 'SEND Offer').

Teachers plan, deliver and assess in Computing, with input from Teaching Assistants (where appropriate), the Computing leader, the SENCO, or Head Teacher.

We aim to meet all pupils' learning needs at all levels.

RESOURCES

At St Francis Catholic Primary School, pupils and staff have access to a range of ICT equipment, including computers which may be controlled by QWERTY keyboard and mouse control. The computers are linked to the school network and server and have facilities to connect to the Internet through Broadband connection.

We currently have:

16 laptops for pupil use
64 ChromeBooks
14 Staff iPads
10 iPads for pupil use
2 photocopiers

RECOGNISING PUPILS' ACHIEVEMENTS

Pupils' achievements in Computing and ICT are recognised and celebrated through:

- displaying of learners' work in classrooms and other areas;
- showing work to the Head Teacher, to the Deputy Head Teacher, to the class, other classes, or to the whole school in assemblies;
- the Academic Achievement award during Celebration Assembly;

ASSESSMENT, RECORDING AND REPORTING

Learners are assessed formatively and continuously in Computing and ICT. It is the responsibility of the class teacher to assess the progress of individual learners.

Teachers can assess each pupil at the end of a unit using the Mr P ICT D.A.R.E.S assessment pack. Teachers will track skills acquired by each child and complete the school assessment tracker at the end of each half term.

Marking follows the whole school marking policy.

HOME-SCHOOL PARTNERSHIP

Parents and carers have a vital role to play in their child's education, and homework is an important part of this process. St Francis use Class Dojo as a link between home and school and Doodle Learning to set homework. This requires the use of the internet. Also pupils may be asked to carry out research, which may involve the use of the internet.

Parents and carers encourage their children to complete the homework tasks that are set. We invite them to help their children as and when they feel it necessary and to provide them with the sort of environment that allows children to do their best.

Parent Consultations are held regularly and a written report is sent to parents at the end of each year.

THE ROLE OF THE COMPUTING SUBJECT LEADER

The Computing Subject Leader is responsible for:

- co-ordinating all aspects of Computing and ICT provision for learners throughout the school;
- developing the Computing Policy, in consultation with teachers, the Head Teacher and the Governing Body;
- modelling good practice in the teaching of Computing and the use of ICT;
- advising and supporting teachers and support staff in relation to Computing and ICT, including contributing to in-service training;
- monitoring Computing, in conjunction with the Head teacher, through discussion with staff, by checking the Medium Term Planning of individual teachers to ensure coverage and progression, and through analysis of learners' work;
- purchasing and the organisation of Computing and ICT resources;
- keeping up-to-date with developments in Computing teaching and learning, and disseminating information to colleagues as appropriate;
- completing an annual review of Computing for the Intent, Implementation and Impact document;
- maintaining an organised Computing Curriculum Leader file.
- To work alongside the DSL to ensure adequate Online Safety is taught across the school.