



## St. Mary's Catholic Primary School

*At St. Mary's we live and learn, sharing God's love.*

### MISSION STATEMENT

'As a Catholic school community, we strive to live as a Christian family showing our love for God in the way we treat each other with dignity and respect and by promoting the development of each child as a unique individual.'

### Introduction

At St Mary's we will provide a high-quality computing education that equips pupils to use computational thinking and creativity to understand and change the world. Strong links will be made with mathematics, science and design and technology and provides insights into both natural and artificial systems, At the core of computing, will be computer science, in which pupils will be taught the principles of information and computation, how digital systems work, and how to put this knowledge to use through programming.

### Aims of the Subject

- To build on knowledge and understanding so that pupils are equipped to use information technology to create programs, systems and a range of content.
- To ensure that pupils become digitally literate - able to use, and express themselves and develop their ideas through, information and communication technology - at a level suitable for the future workplace and as active participants in a digital world.
- To ensure that pupils can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic algorithms and data representation.
- To ensure that pupils can analyse problems in computational terms and have repeated practical experience of writing computer programs in order to solve such problems.
- To enable pupils to evaluate and apply information technology, including new unfamiliar technologies, analytically to solve problems
- To ensure that pupils are responsible, competent, confident and creative users of information and communication technology.



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### Safeguarding: Online Safety

Online safety has a high profile at St Mary's for all stakeholders. We ensure that this profile is maintained and that pupils' needs are met by the following:

- A relevant up-to-date online safety curriculum which is progressive from EYFS to the end of Year 6.
- Provide training for staff and governors which is relevant to their needs and ultimately positively impacts pupils.
- Scheduled pupils voice sessions and learning walks to steer changes and inform training needs.
- Parents are kept up to date with relevant online safety updates, matter, policies and agreements. Parent know who to contact at school if they have concern regarding any aspect of safeguarding.
- Pupils, staff and parents have Acceptable Use Policies which are signed and copies freely available.
- Our online safety policy clearly states how monitoring of online safety is undertaken and any incidents are dealt with.
- Filtering and monitoring systems for all our online access.
- Data policies which stipulate how we keep confidential information secure.

### Computing Scheme of Work

As a school, we have chosen the Purple Mash Computing Scheme of Work from Year 1 to Year 6. The scheme of work supports our teachers in delivering fun and engaging lessons which help to raise standards and allow all pupils to achieve to their full potential. We are confident that the scheme of work more than adequately meets the national vision for Computing. It provides immense flexibility and strong cross-curricular links. Furthermore, it gives excellent supporting material for less confident teachers.



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### EYFS

In our foundation stage children will learn to recognise that range of technology is used in places such as homes, schools, selecting and using technology for particular purposes.

### Key Stage 1 (Y1 and Y2)

- 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 (Y3, Y4, Y5, Y6)

- 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 some simple algorithms work and to detect and correct errors in algorithms and programs



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- 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.

### Planning

Long term planning is identified from the National Curriculum 2014 through the Purple Mash Scheme of Work. This is undertaken in the context of the school's overall curriculum plan. It reflects the needs of all children. The Purple Mash units of work are linked closely to topic based planning with the computing co-ordinator checking long term and medium term plans to ensure coverage of the computing curriculum. Long term plans show how the teaching units are distributed across Key Stages 1 and 2 in a sequence which promotes both curriculum continuity and progress in children's learning. Medium term and short term planning is taken from Purple Marsh units of work, or created to meet the identified skills suited to each topic. Units of work identify learning objectives and outcomes for each computing unit and suggested activities and resources which will enable these to be achieved.

There is an expectation that all teachers provide opportunities for the use of various technologies and software to enhance the teaching & learning of all pupils across the curriculum. This will be achieved through skilled decisions and choices in all other subjects about how best the children will achieve the learning objectives set.



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### Assessment

Pupils' attainment is assessed using desktop assessors and pupils' saved work on their Purple Mash individual accounts will inform pupil assessment and inform pupils' understanding of the taught objectives. Teacher's comments at the end of pieces of work serve as recognition of achievement, and include 'next steps' for pupils to work upon where appropriate. Summative assessments will be made at the end of each unit to assess pupils' progress and attainment against the unit's key learning to assess whether each pupil is working below, at or above age related expectations.

### Monitoring

Computing will be monitored by the Senior Leadership Team and computing co-ordinator on a regular basis. Monitoring will include learning walks, online portfolio looks, planning scrutinises, lesson observations and pupil interviews. The computing co-ordinator will also meet regularly with the subject's link governor. Children's progress and attainment within computing is monitored by co-ordinators who look at the assessment grids completed by teachers at the end of each unit. The grids show the number of children working below, at and above age related expectations.

### Health and Safety

St Mary's take all necessary measures to ensure both staff and pupils are aware of the importance of health and safety.

Both staff and pupils are trained to handle electrical equipment correctly including how to power off and on. Pupils are reminded of the dangers of electricity and danger signs to look out for. Adequate displays and warning signs are strategically placed around school to reinforce health and safety.

Reviewed: January 2023

Next review date: January 2024