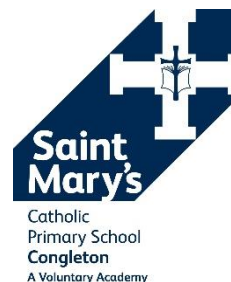


Computing Statement of Intent

Preparing our pupils for the digital world, while unlocking the potential for a more sustainable future.



Computing Statement of Intent

Technology is changing the lives of everyone. Through teaching Computing, we equip our children to participate in an ever-developing world where work, leisure activities, and goals are increasingly transformed by technology.

It is our intention to enable children to find, explore, analyse, exchange and present information. We also focus on developing the skills necessary for children to be able to use information in an effective way.

Computing skills are a major factor in enabling children to be confident, creative and independent learners and it is our intention that children have available to allow them to achieve this.

Aims of Computing

The national curriculum for computing and our progress of skills within each milestone aims to ensure that all pupils in KS1 can:

- 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

The national curriculum for computing and our progress of skills within each milestone aims to ensure that all pupils in KS2 can:

- 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

Information on specific year group content can be found in our 'Computing Curriculum Overview' document.

Online Safety:

For our Online Safety curriculum, we follow the Kapow Computing programme. Each year group has an online safety topic. Children are taught online safety as a part of the Computing curriculum. The school also runs E-Safety weeks and Safer Internet days to further increase awareness of online safety.

Connections in a wider context:

Ethos – 'Saint Mary's is a Christ-centred learning community where all are safe, valued and loved.'

Quality of Education – The Kapow Computing scheme offers full coverage of the KS1 and KS2 Computing curriculum, involving digital literacy and online safety, computational thinking, and use of computers and hardware. These are outlined in the 'Aims of Computing' section.

Wellbeing – As cyberbullying becomes more of an issue in society, the importance of teaching children about online safety and giving them the tools to use the internet correctly is key in improving their wellbeing. Online safety runs throughout the Computing scheme, but is also taught in other areas of the curriculum. This can be identified in the Computing Curriculum Overview. Online safety is additionally a part of our KiVa Anti-bullying programme. The school partakes E-Safety Weeks and Safer Internet Day.

Technology – Many of the topics covered in the computing scheme allow teachers and children to access the majority of the resources free through the internet. Online resources can be updated and improved. This will enable the school to stay current with technological advances.

Sustainability – Kapow Primary proposed links from their already adaptable scheme of work so that their topics link in with sustainable development. On 12/05/19, I sent an email to Kapow Primary asking them about how their topics could link to the sustainable development goals proposed by the UN (a picture of these goals can be seen below). They replied with ideas for each year group and have said that they will look further into linking their topics to sustainable development. Saint Mary's Primary school intends to use these ideas as a basis for linking the Computing curriculum to sustainable development, whilst ensuring that we are covering all aspects of the curriculum throughout the year groups.