

Computing Curriculum-Mary's Catholic Primary School



Intent:

Proverbs: To know wisdom and instruction, to understand words of insight, to receive instruction in wise dealing, in righteousness, justice, and equity; to give prudence to the simple, knowledge and discretion to the youth— Let the wise hear and increase in learning, and the one who understands obtain guidance

At St Mary's, we prepare our pupils for their future, in the digital world, by providing them with various opportunities to gain knowledge and develop their skills through our computing curriculum and ICT opportunities. We embrace, and share with the pupils, the importance of technology in educational, social and vocational aspects. We want to ensure our pupils are equipped with the skills to embrace emerging technology and to use it efficiently and safely. Our computing curriculum focuses on the progression of skills in computer science, information technology and online safety by repeatedly revisiting these strands through a range of topics throughout the school in a progressive manner. We ensure that all pupils are competent in understanding how to use technology safely both in school and at home.

Implementation:

- Pupils develop their computing skills through teaching and learning starting in EYFS, up to year 6
- Subject knowledge and explicit skills in computing are taught explicitly and developed as pupils continue their journey through the school, with the support of the Purple Mash computing platform
- Pupils are responsible, competent, confident and creative users of information and communication technology.
- Pupils Know how to keep themselves safe whilst using technology and, on the internet, and be able to minimise risk to themselves and others.
- Pupils become responsible, respectful and competent users of data, information and communication technology.
- Pupils can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems.
- Pupils can analyse problems in computational terms, and have repeated practical experience writing computer programs in order to solve such problems.
- Pupils can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation.
- Pupils become digitally literate and are active participants in a digital world.
- Pupils are equipped with the capability to use technology throughout their lives.
- Pupils understand the importance of governance and legislation regarding how information is used, stored, created, retrieved, shared and manipulated.
- Pupils utilise computational thinking beyond the Computing curriculum.
- Pupils understand and follow the SMART E-Safety rules.
- Pupils understand the E-Safety messages can keep them safe online.
- Pupils know who to contact if they have concerns.

Impact:

At St Marys, our pupils are enthusiastic and confident in their approach towards computing. They demonstrate a clear love of learning in computing and understand how to engage with technology in a safe and creative manner. We ensure they have a secure understanding of the positive applications and specified risks associated with a broad range of digital technology.

Our pupils are able use and apply a range of computing skills and are confident in their new learning opportunities as they progress throughout the school.