

Computing at Our Lady and St Thomas Catholic Primary School



Part of the Bishop Hogarth Catholic Academy Trust

Intent- What are we teaching?

At Our Lady and St Thomas Primary school Computing is an essential part of the curriculum; a subject which does not stand alone but is woven through all other subject areas. Computing and technology is increasingly a significant part of every person's daily life and we want our children to be at the forefront of new technology, with a desire to discover what is out there.

Through the study of Computing, our children will be able to develop a wide range of fundamental skills, knowledge and understanding that will allow them to excel at secondary school and will actually equip them for the rest of their life. Computers and technology are such a part of everyday life that our children would be at a disadvantage would they not be exposed to a thorough and robust Computing curriculum.

- Our children will have the opportunity to be beyond Secondary ready.
- Our children will have the skills to develop and have an impact within the digital world.
- Our children will develop problem solving skills and be able to analyse and adapt.
- Our children will learn that people will share different opinions to our own through digital media and that these thoughts should be respected.

Implementation- How are we teaching?

Our children in **Early Years** provision will:

- be exposed to the understanding of internet safety as they explore the world around them and how technology is an everyday part of their learning and understanding of the world.

In **Key Stage 1** the children will:

- learn to understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.
- They will be taught to create and debug simple programs and use logical reasoning to predict the behaviour of simple programs.
- They will be shown how to use a range of technology purposefully to create, organise, store, manipulate and retrieve digital content as well as recognise common uses of information technology beyond school.

- They will be taught to 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.

In **Key Stage 2** the children will:

- design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.
- They will use sequence, selection, and repetition in programs, use logical reasoning to explain how some simple algorithms work and correct errors in algorithms and programs.
- Children will be taught to understand computer networks, including the internet, and the opportunities they offer for communication and collaboration.
- They will use search technologies effectively, learn to appreciate how results are selected and ranked, and be discerning in evaluating digital content.
- Children will be taught to select, use and combine a variety of software (including internet services) on a range of digital devices to create a range of programs, systems and content that accomplish given goals.
- They will use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

Impact- How do we know that children have learned what was taught?

After the implementation of this robust computing curriculum, children at Our Lady and St Thomas will be digitally literate and able to join the rest of the world on its digital platform. They will be equipped, not only with the skills and knowledge to use technology effectively and for their own benefit, but more importantly – safely. The biggest impact we want on our children is that they understand the consequences of using the internet and that they are also aware of how to keep themselves safe online.

As children become more confident in their abilities in Computing, they will become more independent and key life skills such as problem-solving, logical thinking and self-evaluation become second nature.

We will measure the impact of our computing curriculum through the following methods:

- Reflection against the skills progression
- Celebration of work in displays
- Evidence saved on individual log-ins
- Staff feedback
- Whole class work portfolio

