



Intent

Emneth Academy believe that computing is an essential part of the curriculum, both as a subject and a subject that is an integral part of all learning. In our modern world, children are surrounded by computers and this subject underpins all new technology. Through an engaging and varied curriculum, we aim to develop a thirst for learning by providing a wealth of learning opportunities and transferrable skills.

In Computing, children will learn the skills, knowledge and understanding that will equip them for the rest of their life, including key vocabulary associated with computing. The subject will teach pupils how to create their own algorithms in order to instruct computers, how modern day technology can provide means to store and present information, and the ability to use technology safely, respectfully and responsibility. The combination of these three areas will ensure children leave the academy with a broad base for learning in the digital world of today.

Implementation

At Emneth Academy, the Computing curriculum will be divided into three separate disciplines:

1. CS – Computer Science
2. IT – Information Technology: Programmes / schemes – EXCEL / ipads
3. DL – Digital Literacy

Each of these areas will cover the following objectives:

	KS1	KS2
CS	<p>Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions</p> <p>Create and debug simple programs</p> <p>Use logical reasoning to predict the behaviour of simple programs</p>	<p>Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts</p> <p>Use sequence, selection, and repetition in programs; work with variables and various forms of input and output</p> <p>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</p> <p>Understand computer networks including the internet; how they can provide multiple services, such as the World Wide Web</p> <p>Appreciate how [search] results are selected and ranked</p>
IT	<p>Use technology purposefully to create, organise, store, manipulate and retrieve digital content</p>	<p>Use search technologies effectively</p> <p>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</p>
DL	<p>Recognise common uses of information technology beyond school</p> <p>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</p>	<p>Understand the opportunities [networks] offer for communication and collaboration</p> <p>Be discerning in evaluating digital content</p> <p>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact</p>

In Early Years, pupils will have an opportunity to understand how to use the Internet safely as they explore the world around them, and that technology is present everyday as they learn and understand the world.

Impact

The aim of Emneth Academy's curriculum is to create children who are digitally literate and confident at using technology as part of everyday life. All pupils will have the skills, knowledge and understanding to safely use technology effectively as part of all their work. The development of Computer Science skills will develop logical thinking and analysis, with Information Technology ensuring children can use different software effectively. Digital Literacy will underpin all this learning as it is vital children from the earliest opportunity understand the consequences of using the Internet and how to keep themselves safe online.