

Computing End Point

EARLY YEARS FOUNDATION STAGE



Early Years Foundation Stage Statements

The most relevant statements for art are taken from the following areas of learning:

Personal, Social and Emotional Development

Physical Development

Expressive Arts and Design



Reception	Personal, Social and Emotional Development		• Show resilience and perseverance in the face of a challenge. • Know and talk about the different factors that support their overall health and wellbeing: -sensible amounts of 'screen time'.
	Physical Development		• Develop their small motor skills so that they can use a range of tools competently, safely and confidently.
	Expressive Arts and Design		• Explore, use and refine a variety of artistic effects to express their ideas and feelings.
ELG	Personal, Social and Emotional Development	Managing Self	• Be confident to try new activities and show independence, resilience and perseverance in the face of challenge. • Explain the reasons for rules, know right from wrong and try to behave accordingly.
	Expressive Arts and Design	Creating with Materials	• Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.

What a pupil at Mytham is like at this stage

- They will learn skills and strategies to be resilient and persevere when faced with a challenging problem.
- They will explore different technology and use them for a purpose.
- They will talk openly about their experiences of different technology.
- They will have access to appropriate tools to be used for different purposes.
- They will begin to understand how to login and use a password to stay safe.
- They will have a simple understanding of how to stay safe online.

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END OF KEY STAGE 1



National Curriculum Objectives for KS1

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.



What a pupil at Mytham is like at this stage

- They will be able to recall and use previous learning to support them.
- They will be able to logon using an individual username and password.
- They will be able to use a mouse, keyboard and turn the device on and off safely.
- They will know how to be safe online and who to ask for help.
- They will be able to select and use computer programmes depending on the outcome.
- They will know and understand the words **programme** and **algorithm**.

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E N D O F K E Y S T A G E 2



National Curriculum Objectives for KS2

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.
- 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.

What a pupil at Mytham is like at this stage

- They will be able to recall and use previous learning to support them.
- They will use technology safely and responsibly both in and out of school.
- They will have a good awareness of online safety and their own digital fingerprint, knowing who to ask if they have any questions or concerns.
- They will understand how a computer network works.
- They will independently select and use a variety of software to accomplish a given goal.
- They will know and understand the words **sequence, repeat/loop, selection, conditional, variable**.