

COMPUTING CURRICULUM

Computer science • information technology • digital literacy

OUR INTENT Children become confident, responsible and creative users of technology who understand how digital systems work and can apply computational thinking.

CURRICULUM STRANDS Computing systems and networks • programming • data and information • creating media • digital literacy

How learning develops

EYFS	Explore technology safely; recognise digital devices; follow simple instructions and create digital content.
KEY STAGE 1	Understand algorithms; create and debug simple programs; use technology purposefully; organise information and recognise common uses of IT.
KEY STAGE 2	Design and debug programs using sequence, selection, repetition and variables; understand networks; work with data; create and evaluate digital content.

Assessable end points

BY THE END OF KS1	BY THE END OF KS2
Explain a simple algorithm, create and debug a program, use digital tools purposefully and describe how to stay safe.	Design, test and evaluate programs and digital products; explain networks and data; select tools critically and act responsibly online.

What pupils learn to do in the subject

SUBJECT PRACTICE Decompose • pattern spot • abstract • design • code • test • debug • evaluate

ESSENTIAL LANGUAGE algorithm • program • debug • data • input • output • network • variable • selection • repetition

Implementation, inclusion and impact

- Teachers revisit prior learning, teach precise vocabulary, model subject thinking and give pupils opportunities to apply knowledge with increasing independence.
- Adaptive teaching, clear explanations, carefully chosen resources and appropriate scaffolds enable all pupils to access an ambitious curriculum.
- Teachers check what pupils remember, understand and can apply through discussion, observation, work and carefully chosen tasks—not through unnecessary evidence collection.

HOW FAMILIES CAN HELP Discuss the technology used in everyday life; create something digital together; maintain clear family routines for safe use.

WEBSITE NOTE This one-page summary should be read with the detailed Great Leighs curriculum progression and unit end-point document, which remains the authoritative teaching sequence.