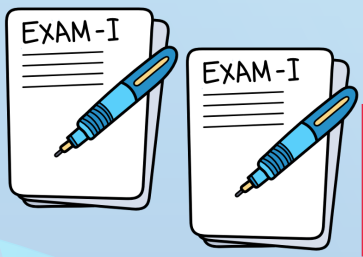
LANDAU FORTE ACADEMY AMINGTON LEARNING JOURNEY

COMPUTER SCIENCE

Continue your lifelong love of learning and personal development

- Apprenticeship
- College
- University
- Workplace



Revision in preparation for external examinations.

Ethical, Legal and Environmental Impacts Pupils explore the impact of ICT on the wider world.

POST-16 PATHWAY

Fundamentals of Cyber Security Pupils learn how to stay safe online.

YEAR 11

Fundamentals of Data Representation Including number bases, conversion and binary.

Computer Systems Pupils explore the systems architecture of a computer.

2 x 90 minute examinations worth 50% each.

Exam Technique

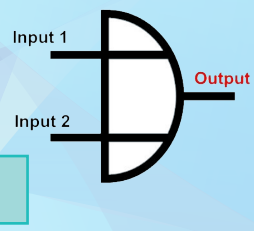
Visit Bletchley Park

Non Examed Assessment Pupils complete a programming based project.

Exam Technique / Programming Practice

Programming Using the Python computing language.

Fundamentals of Computer Networks Comparing different network types.



Logic Gates

Binary Pupils learn to carry out simple operations in binary.

YEAR 10

Problem Solving in Python Pupils use a programming language to solve a computational problem.

Fundamentals of Algorithms Pupils explore Decomposition, Abstraction, Flow Charts and Pseudo code.

Ethics

Computer Systems Pupils understand the hardware and software components that make up computer systems

Cyber Security Pupils learn the danger and how to stay safe online.

Web Design Pupils undertake a creative project to create their own webpage.

YEAR 9

Hardware / Software Pupils understand the hardware and software components that make up computer systems.

YEAR 8

Programming Pupils build upon their abstraction and decomposition skills.

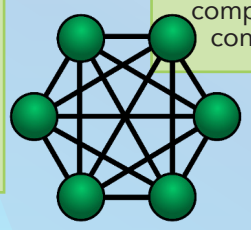
Modelling Data Pupils learn the basic of spreadsheets including calculations.

Introduction to ICT Pupils receive training in the Microsoft Office software package.

Attend Year 6 transition days

Representation Pupils explore binary and Boolean logic.

Programming Pupils use Scratch animation to learn the basic of programming.



Networks Pupils learn how computers are connected.

MS Team Training Pupils learn to use MS teams effectively to support other subjects.

WELCOME

YEAR 7

PRIMARY SCHOOL

Apply for a place at Landau Academy