FURNESS ACADEMY

CURRICULUM OVERVIEW

COMPUTING

YEAR 9 | KEY STAGE 3



UNIT 1 | COMPUTER HARDWARE

Understand computer hardware and how components support digital systems.

UNIT 2 | ADVANCED SPREADSHEETS

Use advanced formulae and functions to process, analyse and present data.

UNITS 3–4 | CONTROL & LOGIC

Control systems using Flowol; binary representation and logic.

UNITS 5–6 | ADVANCED COMPUTING

Advanced Python programming; cybercrime, artificial intelligence and ethics.

KEY SKILLS

Develop independent Python solutions • Apply binary and logical reasoning • Model and analyse spreadsheet data • Evaluate cybercrime and AI ethics

PROGRESSION

Apply computational thinking to more challenging tasks, independently design, implement, test and evaluate solutions, and consolidate KS4 readiness.

ENRICHMENT & APPLICATION

Year 9 students participate in the BEBRAS online competition; further opportunities include I Belong in Computing and Ada Computer Science events.

FUTURE PATHWAYS

Foundation for OCR GCSE Computer Science (J277) and Cambridge Nationals Information Technologies.