COMPUTER SCIENCE

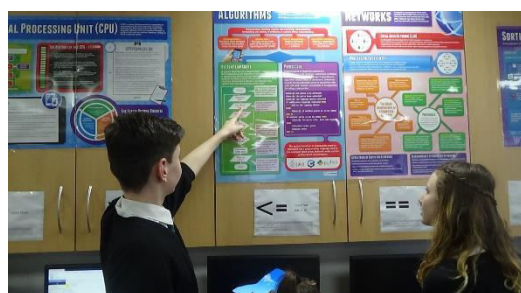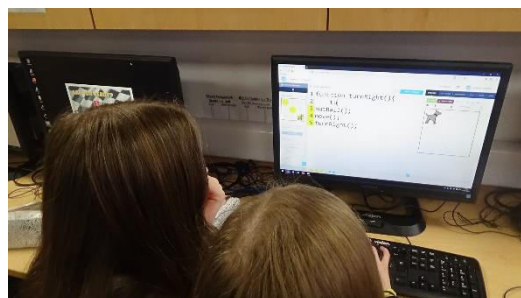## Lead teacher: Mrs K Allen   kallen@tenburyhigh.co.uk

Syllabus: J277
Exam Board: OCR
Exam Board Website: www.ocr.com
Subject: GCSE Computer Science

This course explores how computers work and what makes them tick. It is for logical thinkers who enjoy problem solving.

Computer Science syllabus content:

- Key techniques behind programming: how to express ideas in sequences of steps, how to approach solving problems and how to use software code.
- The underlying principles of logic and algorithms. This requires a high level of mathematical skills and it would be difficult to recommend this course to anyone not in the maths' top set.
- Pupils will gain practical experience of designing, writing, and testing computer programs using Python and structured pseudo-code. Develop the ability to reason, explain and evaluate computing solutions, and develop awareness of current and emerging trends.

Time Allocation: 3 x 50 minute lessons per week.	**Future Education Opportunities:** AS/A Level in Computing or Programming and related subjects. Further and Higher Education College courses in Computing or Computer Science. Apprenticeships as an IT systems technician.
Assessment: The exam board requires students to be set a programming project of the teacher's choice which enables students to progress with paper 2 of the syllabus. The final examination will be two papers in the summer of 2023, which combined is worth 100% of the GCSE. GCSE Computer Science will count as a science option in the EBacc, the government's measure of success at GCSE level.	**Future Career Opportunities:** • IT technician/systems or network administrator/ consultant • Computer engineer/programmer • Software engineer/designer/applications designer • Systems analyst/designer • Data modeller/manager • Web designer • Teacher