# COMPUTER SCIENCE & ICT

## KS5

### Curriculum Overview

The computing curriculum at Christ the King College equips pupils with the skills to use computational thinking and creativity to understand and influence the world. It integrates mathematics, science, and design and technology, offering insights into both natural and artificial systems. The core focus is on computer science, teaching the principles of information, computation, and digital systems, with an emphasis on programming. Pupils also learn to create programs, systems, and various types of content using information technology. The curriculum is connected to current affairs and Christian events like Christmas, Easter, and All Souls Day. It fosters digital literacy, preparing students to be active participants in a digital world and future workplace. Christian values are embedded, promoting safe and responsible use of technology. The curriculum provides diverse, ambitious learning opportunities, ensuring progress for all students in computing.

### YR12 & 13



### Specification link

**A-Level Computer Science:**
https://www.aqa.org.uk/subjects/computer-science

**Btec IT:**
https://qualifications.pearson.com/en/qualifications/btec-nationals/information-technology-aaq.html

### When and how assessment of learning will happen
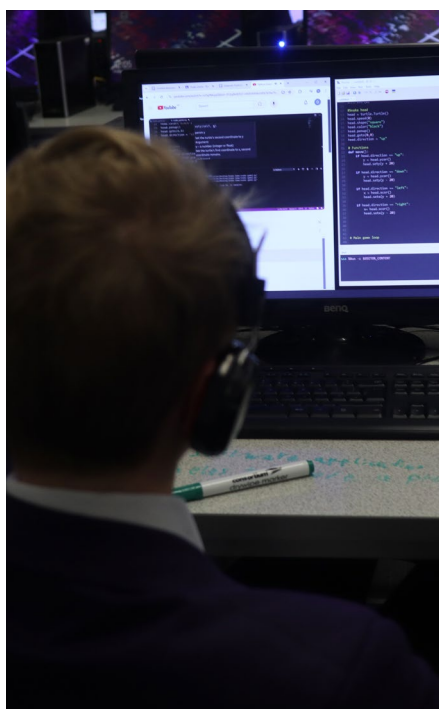
**A-Level Computing**
Regular topic based assessments using exam style questions throughout both years. Mock exams take place over the course of Yr 12 and 13 to help prepare students for the real exam.

Students will also meet with their teacher to go through targets and the students' independent learning record.

**BTEC IT**
For the examined content, students will undertake regular topic based assessments and have access to mock exams.

For coursework, students will complete a series of assignments and be fed back to in a formal process. Students will have the opportunity to improve their coursework if required. Students will also attend formal meetings with their teacher to discuss work and progress, this is conducted in a similar manner to a workplace.
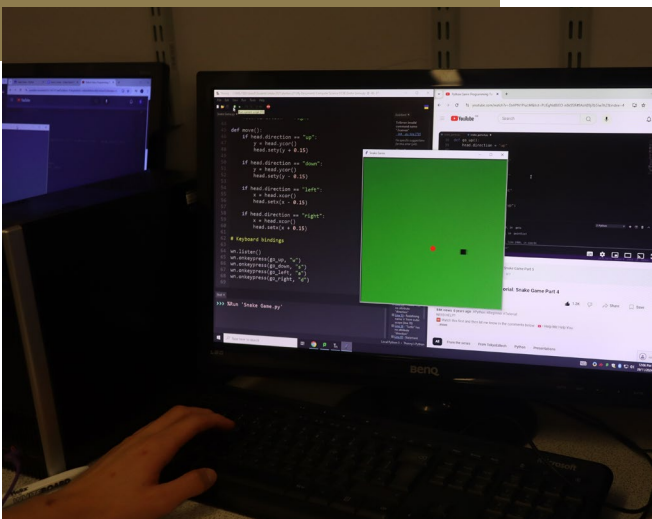
**A Level Computing**
- **Paper 1: On-screen exam, 2 hours 30 minutes 40% of A Level**
- **Paper 2: Written exam; 2 hours 30 minutes 40% of A Level**
- **Non-exam assessment 20% of A Level**

**BTEC IT**
- **Information Technology Systems**
- **Cyber Security and Incident Management**
- **Website Development**
- **Relational Database Development**

## Home Learning Expectations

Within both subjects, independent research and revision is integral. Further to this, an accurate learning record (e.g. notes taken in a lesson) must be kept.

## Useful Information

All content and guidance is published via Google Classrooms to all students. Most importantly, there is a transition phase for students who have not previously studied these subjects. This allows all students to make the most of their time in sixth form.





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