Year 9 - ICT/Computer Science

Curriculum content

Half term	Year 9
Autumn 1	Digital literacy Cyber security & aspects of e-safety Assessment 1
Autumn 2	HTML programming (basic structure, text formatting, images, hyperlinking) Image editing Web design Assessment 2
Spring 1	Computational thinking Writing algorithms AppLab (block-based programming with JavaScript)
Spring 2	Aspects of e-safety Programming in Python Assessment 3
Summer 1	Data modelling with spreadsheets Databases and SQL
Summer 2	

Skills

The skills developed throughout the course include:

- using computational methods to understand, design and write algorithms;
- using logical reasoning to solve computational problems;

- programming skills, using a range of textual programming languages;
- problem solving skills to solve computational problems;
- numeracy skills to understand and use different number systems;
- being creative to complete projects that involve selecting, using, and combining multiple applications to achieve challenging goals;
- creating, reusing, revising and repurposing digital artefacts for a given audience, with attention to trustworthiness, design and usability;
- digital literacy to be able to successfully find, evaluate, create and communicate information.

Assessment

Internal assessment takes place at three points of the academic year, in line with the school's assessment policy. The assessments are as follows:

Assessment 1 – Knowledge recall on digital literacy and aspects of cyber security

Assessment 2 – Web design

Assessment 3 – Algorithms & programming