Bloxwich Academy

Curriculum Overview

Curriculum Intent: The Computing Curriculum contributes to the whole school curriculum by providing students with the digital knowledge and understanding of digital infrastructure to thrive within their school life. Our curriculum provides a variety of experiences, such as STEM days and after school clubs, that interest and empower students to make informed contributions to our democratic society.

Curriculum Rationale: Pupils will develop the necessary skills knowledge and understanding to prepare them for the technological demands of society throughout KS3. Pupils exposed to all three strands of the National Curriculum (Information Technology, Computer Science and Digital Literacy) to ensure that they are proficient users and practitioners while understanding the dangers and pitfalls of the technology. The computing curriculum will equip pupils with appropriate skills for all subjects and prepare them for the wider workplace. The whole of our KS3 curriculum builds knowledge that will be required both in later life and within our two KS4/5 pathways.

KS3 - Computing

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Y7 - Rotation	**Rotation: Computer Skills (Networks, Scratch and Computational Thinking)**					
Y8	**Algorithms**	**Computer Systems & Architecture**	**Edublocks Programming**	**Data Analysis**	**User Interface Designs**	**Data Representation – Images & Sound**
Y9	**Cyber Security – Threats to Data**	**Website Design**	**Networks**	**Data Analysis & Modelling**	**User Interfaces – Design Principles & Functionality**	**Text-Based Programming**

KS4 - Digital Information Technology

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Y10	**User Interface Component 1:** Investigate user interface design for individuals and organisations	**User Interface Component 1:** Audience needs, and design principles	**PSA Component 1**: Use project planning techniques to plan and design a user interface	**PSA Component 1:** Develop and review a user interface	**Spreadsheets Component 2:** investigate the role and impact of using data on individuals and organisations	**Spreadsheets Component 2:** different ways of representing information situations where they are used
Y11	**PSA Component 2:** Create a dashboard using data manipulation tools	**PSA Component 2:** Draw conclusions and review data presentation methods	**Component 3:** Modern technologies	**Component 3:** Cyber security Component	**Component 3:** The wider implications of digital systems	**Component 3:** Planning and communication in digital systems