Develop: Abstraction Computational Thinking Data structures Security and safety Independence

Sandbach School Computing

Bridging Year Computer Science Curriculum Sequence

<u>Intent</u>: to provide a grounding in the digital skills that are a pre-requisite to success in professional IT careers including computational thinking, practical investigation and system safety.

<u>T1</u>	<u>T2</u>	<u>T3</u>	<u>T4</u>	<u>T5</u>	<u>T6</u>
Components	of a PC Python Ba	components of a Po	C Python Basics	HTML and CSS	Cyber security
(Group	1) (Group	1) (Group 2)	(Group 2)		
Why these topics? Understanding the main components of a fundamental to understanding digital tech		understanding the fundamental to understanding digita		standing programming to students. It acts as an easy-entry	Why This Topic? This unit focusses on the fundamentals of cyber security. Learning about how to stay safe with IT is a national curriculum objective and forms a major part of PSHCE study as well.
Curriculum Links Technical Hardware	Curriculum Links	Curriculum Links • Technical • Hardware	Curriculum Links	Curriculum Links	Curriculum Links Independence Creativity
Teaching these topics here support Pupils understanding of the hardwa digital technology that surrounds th walks of life.	re used in Programming and computat	ional skills useful in Pupils understanding of the har	dware Programming and computational useful in a wide range of career	suitable for career entry points in the wider	Teaching these topics here supports: Behaviour and safety when using digitatechnologies. Wider understanding of threats and issues facing companies and organisations.
These topics feed from: Building from hardware and softwa year 8.	These topics feed from e unit in Building from Python unit in year	8. Building from hardware and sof unit in year 8.	These topics feed from Building from Python unit in year 8.	These topics feed from Builds from the website unit in Year 7, adding CSS functionality.	These topics feed from Threats and security unit in year 8, e-safety unit in year 7.

