Introduce:

Safety and Respect
Computational Thinking
Abstraction
Creativity

Sandbach School Computing Curriculum – Transition and Induction:

Transition and Induction Computing Curriculum Sequence

<u>Intent</u>: To equip all learners with the necessary building blocks to begin the computing pathways. Using technology safely and responsibly is core and pupils take their first steps in computational thinking, logic and data handling.

	<u>T1</u>	<u>T2</u>	<u>T3</u>	T4	<u>T5</u>	<u>T6</u>
	Acceptable Use Digital Dangers	One Page Website	Programming with Scratch	Logic and binary.	Spreadsheet Modelling	Open ended project
Why these topics? Acceptable Use aims to so and allows all pupils to be and regulations they will be school plus it will teach the network in the school. boys to access digital learr computer lessons but also wider curriculum. e-Safety topics are a vital computing curriculum and all risks associated with te of the department.	familiar with the rules be working under in the tem the intricacies of . This will allow the ning in all future of the learning across a component of any traising awareness of	Why This Topic? This is a chance for learners to combine creative IT skills with skills that form the fundamentals of computer science. The unit is a cross-curricular effort with the history department and will revisit the learning on local history and create a digital slant whilst reinforcing the key concepts.	Why This Topic? Focus groups have yielded that Scratch is widely taught in primary schools. It has been found, however, that often the key computational thinking skills have not been implicitly taught so this unit starts pupils on the journey to professional programming.	Why This Topic? This is directly from the National Curriculum and skill builds towards GCSE Computer Science which is offered at Key Stage 4.	Why This Topic? This links to the National Curriculum objective relating to abstraction and investigating real-world problems. Using spreadsheets is also a fundamental skill for business use of IT and isn't addressed anywhere else in a student's life journey through IT education in schools. Spreadsheets are revisited in maths for some pupils so this will help to skill build towards that outcome.	Why This Topic? Growing learners so that they move towards independence is a key objective in the department's teaching. This project allows pupils to reflect on previous learning, practice and synthesise skills and produce a response that is unique and authentic.
Curriculum Links Responsibility Community Safety Rules Rights		Curriculum Links Community Historical Code Graphic Design Online	Curriculum Links	Curriculum Links Logic Representation Number/Calculation Technical Problem solving	Curriculum Links	Curriculum Links Independence Creativity
Teaching these topics her Behaviour and safety in ar using computers, respect eSafety topics that will be each pupil's school life in I in the computing curriculu	n ICT room, the rules of for equipment. revisited throughout PSHCE and further on	Teaching these topics here supports: Learners have their first opportunity to "code" something with HTML. This supports the learning of real programming languages later. Reflecting on local history and local life helps to ground pupils within their communities.	Teaching these topics here supports: Programming structures: sequence, selection, iteration and modularity	Teaching these topics here supports: Understanding how and why computers use binary. Computational thinking.	Teaching these topics here supports: Creating abstract models. Real world problem solving skills.	Teaching these topics here supports: Self reflection of learning, review of learning, providing a pathway towards independence.
These topics feed from: E-safety topics taught in p	rimary school.	These topics feed from This is likely each pupil's first attempt at using text code.	These topics feed from Instruction sequencing in Scratch taught in primary school.	These topics feed from This is likely to be the pupil's first attempt at logic and binary. Builds on basic maths taught in KS1 and 2.	These topics feed from Pupils will not have studied spreadsheets before. They will use maths skills learned in KS1 and 2	These topics feed from The units studied in computing so far this year

