

Curriculum Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	Scratch		Web design		Computing fundamentals	
Year 8	Scratch		Introduction to Python		Mobile app development	
Year 9	Flowol		Python (set 1 & 2) Spreadsheets (set 3 - 5)		Interactive presentations	
Year 10	IT: Component 1 LAA-B		IT: Component 3 LAA-D		IT: Component 1 LAC	
Year 11	Component 2 LAA-B		Component 2 LAC		Revision	
Year 12	Unit 8		Unit 1		Unit 17	
Year 13	Unit 2		Unit 17		Unit 1 & Unit 2 resit preparation	

Homework Focus

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	Practising scratch techniques on www.scratch.mit.edu		Practising web design techniques		Embedding computing fundamentals	
Year 8	Practising scratch techniques on www.scratch.mit.edu		Practising python techniques (Python is free downloadable software)		Exploring mobile apps	
Year 9	Building problem solving techniques		Practising python techniques (set 1 & 2) Building skills in spreadsheets (set 3 & 4)		Effective use of presentation tools	
Year 10	BTEC: C1 LAA		BTEC: C1 LAB		BTEC: C1 LAC	
Year 11	Preparation of spreadsheet techniques		Building and practising spreadsheet skills		Preparation for final assessment	
Year 12	Completing unit 8 assignments		Exam practice and knowledge recap on unit 1		Theory for unit 17	
Year 13	Autumn 1: LO1-LO3 recap and revise Autumn 2: LO4-LO6 recap and revise		Unit 17 amendments		Unit 1 & 2 resit preparation	



Enrichment Opportunities

	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13
<u>Suggested Experiences</u>	Use your scratch account to stretch you learning	Download python at home and attempt problems found online	Download python at home and attempt problems found online	Download python at home and attempt problems found online	Google certification (Discuss with Miss Ahmed)	Google certification (Discuss with Miss Ahmed)	Google certification (Discuss with Miss Ahmed)

Links to the Year 7 National Curriculum

The National Curriculum	Welling Reference to the National Curriculum
- use a programming languages to solve a variety of computational problems	Autumn Term
- undertake creative projects that involve selecting, using, and combining multiple applications to achieve challenging goals	Spring Term
- understand the hardware and software components that make up computer systems, and how they communicate with one another and with other systems	Summer Term

Links to the Year 8 National Curriculum

The National Curriculum	Welling Reference to the National Curriculum
- use a programming languages to solve a variety of computational problems	Autumn Term
- use two or more programming languages, at least one of which is textual, to solve a variety of computational problems; make appropriate use of data structures [for example, lists, tables or arrays]	Spring Term
- undertake creative projects that involve selecting, using, and combining multiple applications, preferably across a range of devices, to achieve challenging goals, including collecting and analysing data and meeting the needs of known users	Summer Term

Links to the Year 9 National Curriculum

The National Curriculum	Welling Reference to the National Curriculum
- understand several key algorithms that reflect computational thinking; use logical reasoning to compare the utility of alternative algorithms for the same problem	Autumn Term
- use two or more programming languages, at least one of which is textual, to solve a variety of computational problems; make appropriate use of data structures [for example, lists, tables or arrays]	Spring Term
- create, re-use, revise and re-purpose digital artefacts for a given audience, with attention to trustworthiness, design and usability	Summer Term

Links to the Exam Specification

The Exam Specification	Welling Reference to the Exam Specification
https://qualifications.pearson.com/content/dam/pdf/btec-tec-awards/information-technology/2017/specification-and-sample-assessments/Spec-BTEC-L1-2TECHAWD-DIT.pdf	KS4 IT
https://www.ocr.org.uk/Images/558027-specification-gcse-computer-science-j277.pdf	KS4 Computer Science
https://www.ocr.org.uk/Images/268867-computing-qualifications-summary-brochure.pdf	KS5 IT



Building Successful Futures