Computing ICT Curriculum Map

2024/2025		Year 7	Year 8	Year — BTEC Tech Award 9	10	11	Year — GCSE Computer Science 9	10	11	Year — Computing 12	Information Technology 12	13
Advent 1	7	Introduction to Computing & Systems, Hardware & Processing	Programming - Micro:bits - makecode.org	Introduction to Project Planning Techniques	Component 1: Exploring User Interface Design & Project Planning	Component 3: Effective Digital Working Practices	Decomposition, Abstraction, Pattern Recognition, Algorithms	Computational Thinking	Networks	Fundamentals of Computer Systems	Databases/Social Media in Business	Unit 1/Unit 5 - Data Modelling
Assessment												
Advent 2	8	Algorithms, Routines, Sequences, Programming - Flowol 4, Blocks, Hour of Code	Software Skills - Word, Excel, PowerPoint	Summative Project: Website for a Client - Planning, Crreate, Review	Component 1: Exploring User Interface Design & Project Planning	Component 3: Effective Digital Working Practices	Flowol 4 projects, Blocks programming (Microbits)	Computational Thinking	Issues & Impact	Fundamentals of Computer Systems	Databases/Social Media in Business	Unit 1/Unit 5 - Data Modelling
Assessment				BIT01 - PSA - Dec		BIT03 Exam - January				Unit 2 Exam -January	Unit 2 Exam -January	Unit 1 Exam - January
Lent 1	6	Programming - Python - Minecraft Education	Data & Data Representation (2) - Data Types and Databases	Ad hoc Networks, Cloud Storage, Cloud Computing, System Security	Component 2: Collecting, Presenting & Interpreting Data	BIT01/BIT02 Resits	Python Programming Projects	Data	Problem Solving with Programming	IT Systems Security and Encyption	Social Media in Business	Data Modelling
Assessment												
Lent 2	7	Data & Data Representation (1) - Binary	Data & Data Representation (3) - Images & Compression	Data Analysis & Spreadsheet Skills	Component 2: Collecting, Presenting & Interpreting Data	BIT01/BIT02 Resits	Data & Data Representation - Binary, Two's Complement, Binary Shifts	Data	Problem Solving with Programming	IT Systems Security and Encyption	Social Media in Business	Data Modelling
Assessment					BIT02 - PSA - May	BIT01/02 - PSAs - May						
Pentecost 1	4	Communication & Networks (1) - Networks	Communication & Networks (2) - Internet Protocols & Hardware	Summative Project: Data Review and Analysis Dashboard	Component 3: Effective Digital Working Practices	Component 3: Effective Digital Working Practices - RESIT	Networks & Network Security	Computers	Revision Activities	Revisit Fundamentals if resit required or Computer Games Development	Unit 1 and/or Unit 2 (if required due to re-sit)	Revision if Required for Unit 1
Assessment						RESIT - BIT03 Exam - May					RESIT- Unit 2 Exam - May	RESIT - Unit 1 Exam - May
Pentecost 2	6	Information Technology Project - National Trust	Software Skills - Desktop Publishing	Summative Project: Data Review and Analysis Dashboard	Component 3: Effective Digital Working Practices		Computationsl Thinking - PRIMM Activities	Computers		Computer Games Development	Unit 1/Unit 5 - Data Modelling	
Assessment												