

Month	Week Number	yr 7	yr 8	yr 9	yr 10	Year 10 Btec	yr 11	Year 11 Btec	year 12 (taught concurrently)	Year 12 Btec	year 13 (taught concurrently)	Year 13 Btec
September 2th	1	introduction to IT – Lesson 1 Intro to computing	Communication technologies	Ethical, legal, cultural, and environmental issues Lesson 1 - overview and legislation	Topics component 1 NSB 9 lessons/half term	Lesson 1 Understanding interface design principles for individuals and organisations.	1.1 computer architecture, CPU, embedded systems primary and secondary storage.	A1: Modern technologies	Introduction to the course. Python exercises.		SLR 18 Thinking abstractly (3 lessons)	A1 Purpose and principles of website products
9th	2	Lesson 2 - using Google classroom and forms, handing in work	Computing systems	Lesson 2 - cultural impacts	Introduction to GCSE	Lesson 2 - user-centred design, accessibility, usability, and visual design principles.	1.2 units, data storage, binary, hex	A2: Impact of modern tech	Structure and function of the processor	A1 Relational database ma	SLR 19 Thinking ahead (3 lessons)	A1 Purpose and principles of website products
16th	3	Lesson 3 - Using Google docs and slides	Operating systems	Lesson 3 - privacy and surveillance	1.1 Computer architecture and CPU (9 lessons)	Lesson 3 - Using project planning techniques to plan, design, and develop a user interface, i	1.2 characters, images, sound	B1: Threats to data	Structure and function of the processor	A1 Purpose and principles	SLR 20 Thinking procedurally (2 lessons)	A2 Factors affecting website performance
23rd	4	Lesson 4 – using the internet safely	AI	Lesson 4 - environment	2.1 Computational thinking	Lesson 4- Including knowledge of project management methodologies, planning tools, and user interface design tools	2.1 computational thinking	B1: Threats to data	Types of processor	A2 Manipulating data struc	SLR 19 Thinking ahead (3 lessons)	A2 Factors affecting website performance
30th	5	Lesson 5 - IT skills – searching the internet	Proprietary and open source	Lesson 5 – AI	1.1 CPU performance and embedded systems	Lesson 5- Reviewing a user interface, including knowledge of methods for usability testing.	2.1 designing, creating, refining algorithms	B1: Threats to data	Input, output and storage. Optical, Magnetic, SSD		SLR 21 Thinking logically (2 lessons)	B2 Common tools and techniques used to produce websites
7th October	6	Lesson 6 – emails and the internet	Proprietary and open source	Lesson 6 - ethics	2.2 fundamentals of programming variables, and constants	Lesson 6- heuristic evaluation, and user feedback analysis.	2.1 searching and sorting	B2: Prevention and manag	Types of Language. LMC	A3 Normalisation	SLR 22 Thinking concurrently (2 lessons)	B1 Website design
14th	7	Lesson 7 - Consolidation lesson	Binary and logic	Lesson 7 – free internet? Finding reliable sources, end of topic assessment	2.2 fundamentals of programming variables, and constants	Lesson 6- heuristic evaluation, and user feedback analysis.	Python	B2: Prevention and manag	LMC	B1 Website design	dedicated project lessons	B1 Website design
21st	8	Catch up lesson to account for login issues	Regular topic test	Catch up lesson to account for login issues	1.1 end of topic consolidation	Lesson 6- heuristic evaluation, and user feedback analysis.	regular test/ test marked/ embedding	B2: Prevention and manag	regular test/ test marked/ embedding	B1 Website design	regular test/ test marked/ embedding	B1 Website design
October 28th – 1st												
4th Nov	1	Spreadsheets/Excel/data Lesson 1 Data and party planning	Excel Lesson 1 - computer models	Spreadsheets – Lesson 1 spreadsheet familiarization	2.4 boolean logic lesson (1&2)	PSA Assessment	1.3 computer networks LAN, WAN. Network hardware. Factors affecting network performance client-	B3: Policy	operating systems. RTOS. Pipelining, Systems software	B1 Relational database de	SLR 23 dedicated project lessons	C1 Client-side scripting languages
11th	2	Lesson 2 – Introduction to sheets	Lesson 2 - Creating a financial model	Lesson 2 - - formatting and conditional formatting	Test Weds 8th P3/P5	PSA Assessment	1.3 wired and wireless, standards and protocols. Packet switching and layers, IP, MAC, encryption	B3: Policy	Op SysExercises. Scheduling and Interrupts. Text analysis Python Task. file i/o	B2 Common tools and tech	SLR 23 dedicated project lessons	C1 Client-side scripting languages
18th	3	Termly test	Termly tests	Termly test	2.4 boolean logic lessons (3&4)	PSA Assessment	2.2 variables, operators	B3: Policy	Software types. Programming basics, structures. Exam questions.	B2 Common tools and tech	SLR 23 dedicated project lessons	C1 Client-side scripting languages
25th	4	Lesson 3 – formatting in sheets	Feedback lesson	Lesson 3 – formulae, data validation	2.4 end of topic consolidation.	PSA Assessment	2.2 sequence, selection	B3: Policy	Data Types . Primitive data types, binary, hex ascii. Signed numbers. Sign&Mag, 2s complement.	C1 Client-side scripting lan	SLR 23 dedicated project lessons	C2 Website development
2nd December	5	Test feedback and target self-evaluation	Lesson 3 - what if scenarios	Test feedback and target self-evaluation	Test feedback	PSA Assessment	2.2 iteration	B3: Policy	Revise + Mock Exam/Test	B2 Design documentation	SLR 23 dedicated project lessons	C2 Website development
9th	6	Lesson 4 – formulas in sheets	Lesson 4 - conditional formatting and validation	Lesson 4 – data visualisation, macros	2.5 Languages and IDE's (3 lessons)?	PSA Assessment	2.2 data types string manipulation	B3: Policy	review mock exam	C2 Website development	SLR 24 Computational methods (6 lessons)	C2 Website development
16th	7	Lesson 5 - charts and graphs	Lesson 5 nd charts	Lesson 5 – look up, what if, end of topic assessment		PSA Assessment	2.2 file handling, records	B3: Policy		C2 Website development	SLR 24 Computational methods (6 lessons)	C2 Website development
December 20th - Jan 3rd												
January 6th				Data representation Lesson 1 - what is representation, binary								
13th	1	Basic programming fundamentals Lesson 1 - Algorithms and Intro to Scratch	Lesson 1 - Intro to podcasts	Lesson 2 -numbers bases and binary maths	2.1 searching algorithms	Lesson 1- Understand h	1.4 network security	C2: Legal and ethical	Hash structure & function. Mod x function.	C1 Producing a database s	SLR 24 Computational methods (6 lessons)	C3 Website review

20th	2	Scratch 2 – Variables and begin Mosquito game – create characters	Lesson 2- Script writing	Lesson 3 bitmaps	1.6 Ethics, Cultural and environmental . Privacy and legal (3)	Lesson 2- Understand h	2.2 fundamentals of programming sub programming	C2: Legal and ethical	boolean algebra. logic gates	C3 Website review	SLR 25 Algorithms (7 lessons)	C3 Website review
27th	3	Scratch 3 – conditions - program character 1	Lesson 3- Recording	Lesson 4 sound	2.2 data types string manipulation.	Lesson 3 - Be able to create a dashboard using data manipulation tools	2.2 SQL	C2: Legal and ethical	boolean algebra. logic gates. Flip Flops Adders.	C3 Website review	Project lessons	C3 Website review
3rd February	4	Scratch 4 – selection – program character 2	Lesson 4 - Adding sound	Lesson 5 logic circuits	1.6 DPA and CMA. Copyright and licences. (2)	Lesson 4 - Be able to create a dashboard using data manipulation tools	2.2 random number generator	C2: Legal and ethical	branch, loop, seq, recursion and global/local	C1 Producing a database	Project lessons	C4 Website optimisation
10th	5	Scratch 5 - iteration - continue game creation	Lesson 5- editing and evaluate	Lesson 6 end of term consolidation	1.4 network security (4 lessons)	Lesson 5 - Be able draw conclusions and review data presentation methods.	2.3 defensive design	C2: Legal and ethical	Object oriented Programming	C4 Website optimisation	SLR 26 Algorithms (7 lessons)	C4 Website optimisation
February 17th – 21st Feb	6							C2: Legal and ethical	End of Topic Consolidation	C4 Website optimisation	End of Topic Consolidation	C4 Website optimisation
24th February		Blog – Lesson 1 - creating a blog for a cause – choosing a cause	Lesson 1 - Network introduction	Microbit and Python OR Code combat – Programming module								
3rd March		Termly Test	Lesson 2- Termly tests									
10th	1	Lesson 2 – Set blog aims and start WordPress	Lesson 3 - Hardware and topologies		1.5 Operating systems (3)	PSA Assessment	1.5 operating systems, utility software	D1: Forms of notation	Normalisation	C2 Testing and refining the	Revision	C5 Skills, knowledge and behaviours
17th	2	Test feedback and target self-evaluation	Lesson 4- feedback		2.2 File handling	PSA Assessment 4	1.6 ethics	D1: Forms of notation	SQL and databases	C5 Skills, knowledge and t	Revision	C5 Skills, knowledge and behaviours
24th	3	Lesson 3 – Develop blog	Lesson 5- the internet		1.5 utility software (3)	PSA Assessment	Catch up	D1: Forms of notation	SQL and databases	D1 Database design evalu	Revision	C5 Skills, knowledge and behaviours
31st	4	Lesson 4 – evaluation of blog	Lesson 6- DNS Packers and protocols		2.2 SQL	PSA Assessment	Catch up	D1: Forms of notation	SQL and databases	D2 Evaluation of database	Revision	C5 Skills, knowledge and behaviours
7th April – 21st April	5							D1: Forms of notation	SQL and databases	D3 Evaluation of the datab	Revision	
21st April	6	Computer software and hardware Lesson 1 – what is a computer. Different types of computer. Computer history	HTML Website Lesson 1 - Website design	Cyber security – Lesson 1 – Understanding the value of data Overview of Cyber Security	End of Topic Consolidation	PSA Assessment	End of Topic Consolidation	D1: Forms of notation	End of Topic Consolidation		End of Topic Consolidation	
28th		Lesson 2 – Input output devices	Lesson 2 - Website plan	Lesson 2 – Social engineering	1.2 primary memory. Secondary memory (2) Binary (1)	Lesson 1 - Modern technologies		Course end				
5th May		Lesson 3 – What's inside a computer	Lesson 3- using notepad++	Lesson 3 - Hacking	2.3 defensive design and testing	Lesson 2- Features of cloud storage						
12th	1	Lesson 4 – memory and storage	Lesson 4- Adding buttons	Lesson 4 – Malware	1.2 Binary 2. Hex. Characters (3)	Lesson 3- Features of cloud comouting			Problem Solving, Abstraction	Revision	Hand in C.W & Exams	Hand in C.W & Exams
19th	2	Lesson 5 – software	Lesson 5- adding images and editing	Lesson 5 – cyber-attacks prevention	2.3 defensive design	Lesson 4 - Platforms			Networks, IP addressing, Internet	Revision	Hand in C.W & Exams	Hand in C.W & Exams
May 26th – 30th May	3								Networks, IP addressing, Internet	Revision	Hand in C.W & Exams	Hand in C.W & Exams
2nd June	4	Copyright and design using Canva lesson 1 - CANVA INTRODUCTION SOCIAL MEDIA POST	Photoshop lesson 1 - Introduction to Photopea	User interfaces lesson 1 - user requirements - Interface designs	2.3 defensive design			A1 Modern technologies	Networks, IP addressing, Internet	Revision	Hand in C.W & Exams	Hand in C.W & Exams
9th	5	Lesson 2 - Logo Advanced design technique in Canva	Lesson 2 clone restore	Termly Assessment	1.3 types of network. Hardware and performance. Client server and peer to peer (3)			A2 Impact of modern technologies	Moral Ethical Cultural	Revision	Hand in C.W & Exams	Hand in C.W & Exams
16th	6	Termly Test	Termly test	Lesson 2 - Creating a sketch of interface		Lesson 2 - Cyber security B1 Threats to data			Moral Ethical Cultural Legal	Revision	Hand in C.W & Exams	Hand in C.W & Exams
23rd	7	Lesson 3 – creating a social media ad/infographic	Lesson 3 channels, brush tools	Termly Assessment feedback and tracking	1.3 The internet. Network topologies. Wired and wireless (3)	B2 Prevention and management of threats to data			Moral Ethical Cultural Legal	Revision	Hand in C.W & Exams	Hand in C.W & Exams
30th		Test feedback and target self-evaluation	Test feedback and target self-evaluation	Lesson 3- Creating the interface					Moral Ethical Cultural Legal			
7th July	1	Lesson 5- Understanding copyright creative commons licence	Lesson 4 vector graphics	Lesson 4- Reviewing the interface	1.3 IP, MAC, encryption. Standards and protocols. Layers and packet switching (3)	B3 Policy			Project Planning for next year.	Unit 1 -		
14th July	2	Lesson 6 – continue project	Lesson 5 complete project	Catch up lesson Activities week	2.5 Languages and IDE's (3 lessons)?	B3 Policy			HTML CSS JAVASCRIPT	Unit 1 -		
21st July		End term Tuesday 22nd	End term Tuesday 22nd	End term Tuesday 22nd	End term Tuesday 22nd	End term Tuesday 22nd			Revision + SLR6 Software Dev. Compression RTE	Unit 1 -		