

NDA Curriculum Sequencing Map 2021-22: Computing

Half Term 1							
Computing	week 1	week 2	week 3	week 4	week 5	week 6	week 7
Year 7	Log ins	Midys	Teams	Outlook	Finding files (Assessed)	Copy and Paste	Eafety + improvements
Year 8	Secure passwords	Completing a survey via Teams	Sending and receiving emails	File structure (Assessed)	Good techniques	Online threats	Staying safe online
Year 9	User interfaces	Basic User Interfaces	Complex User interfaces	Design principles	Accessibility		Assessment about User Interfaces
Year 10 CS	Recall Assessment	Central Processing Unit	Memory	Secondary storage	Operating systems	Utility software	Open source
Year 10 DIT	Ad hoc + issues	Interface design	Cloud computing and storage	Interface design	Suitability of platforms	Interface creation	Assessment of interface
Year 11 CS	P1 - Primary Storage P2 - Outputs	P1 - Secondary storage	P1 - Embedded systems	P1 - CPU architecture	Revision both Paper 1 & 2	Mock exams - Full Paper 2 content	Mock exams - Full Paper 2 content
Year 11 DIT	Component 2 Intro & Adhoc networks	Data vs Info & Cloud tech	Data collection & Collab tools	Features of data & Disaster recovery	Features of data and Stakeholders	Validation and verification	Assessment (End of topic test)

Half Term 2							
Computing	Week 1	week 2	week 3	week 4	week 5	week 6	week 7
Year 7	Presentation skills	Computer science vs ICT	Careers in technology	Multiple choice assessment	Response to teacher feedback	Environmental issues	The digital divide
Year 8	Presentation skills	Do I prefer Computer science or ICT?	Which career could I get from studying Computing	Multiple choice assessment	Response to teacher feedback	Environmental issues	The digital divide
Year 9	Planning an interface using planning tools		Designing an interface about networks			Testing an interface	Evaluating an interface
Year 10 CS	Computational thinking	Search algorithms	Binary	Sorts	Flowcharts	Pseudocode	Searching and sorting assessment
Year 10 DIT	Environmental responsibilities	Interface creation	Equal access + net neutrality	Interface creation	Legislation + acceptable use	Interface creation	Threats
Year 11 CS	P1 - Types of networks P2 - Units and numbers	P1 - Network Hardware P2 - Binary and decimal	P1 - Internet P2 - Binary addition	P1 - Topologies P2 - Hex	P2 - Binary shifting - Revision	Mock assessment - Full Paper 2 content	Response to teacher feedback
Year 11 DIT	Component 2a completion	Component 2a completion	Component 1 - recovery curriculum COVID - Spreadsheet skills to be revisited once completed in preparation for half term 3.				

Half Term 3							
Computing	week 1 (half week)	week 2	week 3	week 4	week 5	week 6	week 7
Year 7	Local area and Wide area networks		Excel		Network hardware assessment		Topologies Bus, ring + star
Year 8	Which network is more suitable?		Excel skills		Network hardware assessment		Topologies Mesh
Year 9	Data vs info	Verification and validation	Quality assuring data	Excel - practice skills		Assessment of Excel skills	Response to teacher/ feedback
Year 10 CS	The internet, local area and wide networks	Network hardware	Wireless networks and client servers	Mesh and star topologies	Utility software	Protocols	Mock exams - Paper 3 content - Networks
Year 10 DIT	Diagrams	Diagrams + analysis	Presenting data	Revision of all Component 3 exam content	Component 3 Mock exam	Response to teacher feedback	Response to teacher feedback
Year 11 CS	Gap analysis	P2 - Logic diagram P2 - Character sets and images	P2 - Truth tables and Sound	P2 - Combining gates and compression	P1 - Operating systems P2 - Strong manipulation	P1 - Utility software P2 - File handling	Arrays & Defensive design
Year 11 DIT	Coursework - importing data	Formatting data	Processing data - Slicers and pivot	Graphs	Macros	Spark lines	Dashboard



Half Term 4						
Computing	week 1	week 2	week 3	week 4	week 5	week 6
Year 7	Internal threats	External threats	Malware		End of topic assessment (Threats) + Response to teacher feedback	
Year 8	Internal threats	External threats	Social engineering		End of topic assessment (Threats) + Response to teacher feedback	
Year 9	PROJECT Term 4 - Formatting data	Pivot and slicers	Graphs and conditional formatting	Vlookup	Response to teacher feedback	Data analysis
Year 10 CS	Programming fundamentals	Security threats and attacks	Code SQL	String manipulation and file handling	Mock assessment - Paper 2 content - Computational thinking, Algorithms & Programming	
Year 10 DIT	Coursework - Component 1B - Response to feedback improvement period for User Interface			Data + Information	Coursework Comp 2B - Investigating data	
Year 11 CS	Input validation + records	Maintainability and SQL	Testing	Mock assessment - Paper 2 content - Computational Thinking, Algorithms & Programming		
Year 11 DIT	Adding data		Data lists and V lookups	Additional features	Coursework - Component 2B - Response to feedback improvement period for Data dashboard	

Half Term 5					
Computing	week 1	week 2	week 3	week 4	week 5
Year 7	Computers	Embedded systems	Parts of the Central processing unit	End of topic test - The Central processing unit	Central Processing Unit diagrams
Year 8	Embedded systems	Parts of the Central	Clock, Cores & Cache	End of topic test - The Central processing unit	CPU diagrams (memory task)
Year 9	GAP analysis - TBC - Computer Science or ICT depending on options students choose				
Year 10 CS	Binary and logic gates	Defensive design	Errors and testing	Translators	Integrated development environment
Year 10 DIT	Coursework Comp 2A - Investigating data	Coursework Comp 2A - Investigating data	Coursework Comp 2A - Investigating data	Response to teacher feedback	Data dashboards and formatting
Year 11 CS	Official exam series - OCR Computer Science				
Year 11 DIT	Data analysis	Evaluation	Improvement time in line with BTCC assessment plan		

Half Term 6							
Computing	week 1	week 2	week 3	week 4	week 5	week 6	week 7
Year 7	Computational thinking		Scratch		Assessment of programming completed	Binary	
Year 8	Algorithms	Flowcharts		Python		Assessment of programming completed	Debugging errors - response to teacher feedback
Year 9	GAP analysis - TBC - Computer Science or ICT depending on options students choose						
Year 10 CS	Binary + units of data	Characters, image + sound	Compression	Hardware	Topologies	Mock exams - Full Paper 1 content	Response to teacher feedback
Year 10 DIT	Pivot and slicers	Application	Graphs + Conditional formatting	VLOOKUPS and Macros	Dashboard	Analysis	Write up - Coursework document Component 2B

Key

	Computer fundamentals		User interfaces		Computational thinking, logic, algorithms and programming
	Software skills and creating digital artefacts		Assessment periods		Computer systems

	Networks
	Binary number systems