

Curriculum Map: Year 11 Digital Information Technology

	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
Topic	Component 3	Component 3	Component 3	Component 3	Component 3	
Intent	Modern Technologies	Cyber security	Implications of Digital Systems	Planning and Communication	Revision	
Lesson intentions	Topic 1 – Different types of network and issues with using them Topic 2 – Benefits and drawbacks of using cloud technology Topic 3 – Uses for cloud technology Topic 4 – Benefits and drawbacks of Modern Teams Topic 5 – Accessibility when using modern technology Topic 6 – Impacts of modern technologies	Topic 1 – System attacks and threats Topic 2 – Internal threats and the impact of breaches Topic 3 – User restrictions and finding weaknesses Topic 4 – Data Level protection mechanisms Topic 5 – policy, backups and recovery procedures	Topic 1 – Benefits and drawbacks of shared data Topic 2 – Environmental impacts of modern technology Topic 3 – Ensuring equal access to modern technology Topic 4 – Effective use of policies to protect systems and individuals Topic 5 – Data protection and threats to data Topic 6 – Criminal use of data, systems and protections	Topic 1 – using data flow diagrams to show the direction of data Topic 2 – Effective use of flowcharts Topic 3 – using system diagrams to show the components of a network Topic 4 – Effective use of tables to order data for analysis	Exam practice	
Key Knowledge	Communication technologies Cloud computing cloud storage Cloud technology Modern team working,	System attacks and internal threats User restrictions and finding weaknesses Internal threats and impacts of breaches Data level protection	Shared Data Environmental issues Equal Access User policies Data protection Criminal use	Data flow diagrams Flow charts System Diagrams tables	Content from previous 4 terms	

	Inclusivity and accessibility Impacts of modern technology	Policy, backups and recovery				
Key Skills	Understanding key concepts Knowledge of modern technologies Exam practice	Understanding key concepts Knowledge of modern technologies Exam practice	Understanding key concepts Knowledge of modern technologies Exam practice	Understanding key concepts Knowledge of modern technologies Exam practice	Understanding key concepts Knowledge of modern technologies Exam practice	
Key Vocabulary	Cloud tech Cloud storage Modern teams Accessibility Inclusivity. 24/7 access, World Teams, remote working, Networks,	Worms, Virus, Hacking, user access, Back ups, policy, disaster recovery, Internal and external threats, user restrictions. Electronic and hard security	GDPR, Data access, environmental impacts, right to equal access, criminal use, user policies, cookies, transactional data, renewable, non renewable, e-waste, equality, AUP, rights, Malware	In out, data, systems, flow, DFD, Entity, Process, Data store, terminator, connector, decision, input, output,	See previous terms	
Key Reading	Revision Guides KIAN	Revision Guides KIAN	Revision Guides KIAN	Revision Guides KIAN	Revision Guides KIAN	
End Point	End of year exam	End of year exam	End of year exam	End of year exam	End of year exam	
Links to British Values	Links to engagement using technology including business and politics, Individual liberty, using tech to express beliefs and opinions.	Rules of law issues in regard to cyber security. Individual liberty such as protections against cybercrime.	Mutual respect, understanding different beliefs and accepting differences.	Democracy – making process transparent. Individual liberty by having diagrams that show how freedoms might be protected.		
Links to Careers	Coding, jobs involved with teamwork and working with international partners.	Coding, jobs involved with teamwork and working with international partners.	Coding, jobs involved with teamwork and working with international partners.	Coding, jobs involved with teamwork and working with international partners.		

	Jobs and knowledge around security and the dangers of cyber crime.	Jobs and knowledge around security and the dangers of cyber crime.	Jobs and knowledge around security and the dangers of cyber crime.	Jobs and knowledge around security and the dangers of cyber crime.		
Form of Assessment	Topic tests Exam	Mock Exam	Topic tests	Mock exam	Final Exam	
Enrichment opportunities						
Leadership opportunities	Independent project work, presentation writing and delivery to audience, debate and discussion activities, teamwork					