

Year 10 Curriculum Overview Plan: Digital Information Technology

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Key Theme:	Key Theme:	Key Theme:	Key Theme:	Key Theme:	Key Theme:
2 lessons per week: Component 2 coursework - learning aim A	2 lessons per week: Component 2 coursework - Learning aim B	2 lessons per week: Component 2 coursework - Learning aim B	2 lessons per week: Component 2 coursework - Learning aim C	2 lessons per week: Revision of component 2 - modern technologies exam - LAA and LAB	2 lessons per week: Revision of component 2 - modern technologies exam -
1 lesson a week: Preparation for component 3 exam - Learning aim A - Modern technologies	1 lesson a week: Preparation for component 3 exam - Learning aim B - Cyber security	1 lesson a week: Preparation for component 3 exam - Learning aim C - The wider implications of digital systems	1 lesson a week: Preparation for component 3 exam - Learning aim D - Forms of notation	1 lesson a week: Programming practice - Python basics	1 lesson a week: Programming practice - Making a user interface with Python
Key Concepts, Knowledge & Skills to be Embedded:	Key Concepts, Knowledge & Skills to be Embedded:	Key Concepts, Knowledge & Skills to be Embedded:	Key Concepts, Knowledge & Skills to be Embedded: Component 2	Key Concepts, Knowledge & Skills to be Embedded: Component 3	Key Concepts, Knowledge & Skills to be Embedded:
Component 3 - Ad hoc networks - Cloud computing - Collaborative working	Component 3 - Malware - Internal threats - External threats - User access restrictions	Component 2 -The use of spreadsheets exam -Functions and formulas exam	- Analysing trends in data - Making suggestions for improvements based on analysis of data	- Ad hoc networks - Cloud computing - Collaborative working - Malware - Internal threats - External threats	Component 3 - Password policy - Disaster recovery policy - Acceptable use policy -Software policy



	1	T	T		
Component 2	Component 2	- The use of a		- User access restrictions	-Environmental issues
-Data and	-The use of	dashboard exam			- Flowcharts
information	spreadsheets			<u>Programming</u>	-Information flow
- Methods of data	preparation	Component 3	Component 3	Variables	diagrams
collection	-Functions and	- Password policy	- Flowcharts	Selection	-Tables
-Spreadsheet skills	formulas preparation	- Disaster recovery	-Information flow	Iteration	
	- The use of a	policy	diagrams		
	dashboard	- Acceptable use	-Tables		<u>Programming</u>
	preparation	policy		Links to Prior Learning:	User interfaces
		-Software policy			Adding features to an
Links to Prior		-Environmental	Links to Prior	Multiple topics from the	interface using Python
<u>Learning:</u>		issues	<u>Learning:</u>	Comp 3 exam taught	
Ad hoc networks,				including Ad hoc	Links to Prior Learning:
external threats and			Flowcharts covered at	networks, cloud	
cloud computing			KS3 in programming	computing and malware.	Multiple topics from
taught across KS3.	Links to Prior	Links to Prior	units.		the Comp 3 exam
	Learning:	<u>Learning:</u>		Python basics taught at	taught including
Spreadsheets	Malware taught at	Password policy	Spreadsheets covered	KS3 in Y7, Y8 and Y9.	flowcharts, and safe
covered at KS3 in	KS3 in Y8 and Y9 as	taught at KS3 in Y7.	at KS3 in	Key Assessment Pieces:	passwords.
spreadsheets unit.	part of the		spreadsheets unit.		
	computing	Spreadsheets		End of unit test - May	
Key Assessment	fundamentals unit.	covered at KS3 in		2022	Python basics taught at
<u>Pieces:</u>		spreadsheets unit.			KS3 in Y7, Y8 and Y9.
Oct 2021 - mock	Spreadsheets			Tier 3 Vocabulary Vault:	
exam - 1.5 hours	covered at KS3 in		Key Assessment		Key Assessment Pieces:
written paper	spreadsheets unit.	Key Assessment	<u>Pieces:</u>	Network	
		<u>Pieces:</u>		Ad-hoc	Mock exam- June/July
Hand in of Learning			Hand in learning aim	Cloud	2022
aim A - October			B - May 2022	Remote	



	Vov Assessment	Hand in learning aim	<u> </u>	Ctorogo	Tion 2 Masshulam
Tian 2 Manahadam	Key Assessment	Hand in learning aim	Tion 2 Managerian	Storage	Tier 3 Vocabulary
Tier 3 Vocabulary	<u>Pieces:</u>	B - Feb 2022	Tier 3 Vocabulary	Collaboration	<u>Vault:</u>
<u>Vault:</u>			<u>Vault:</u>	-Malware	
Network	Mock exam - Nov	Tier 3 Vocabulary		-Virus	- password
Ad-hoc	2022	<u>Vault:</u>	-data	-Trojan	-environment
Cloud			-trends	-Hacker	- disaster recovery
Remote		-formulae	-flowchart	-Man in the middle	-server
Storage	Tier 3 Vocabulary	-function	-algorithm	- Phishing	-software
Collaboration	<u>Vault:</u>	-dashboard	-data flow	-Pharming	-data
Data	-formulae	- spreadsheet		-Should surfing	-trends
Information	-function	-data	Reading Exposure:	-Encryption	-flowchart
Primary data	-dashboard	-manipulation	Reading of	-Firewall	-algorithm
Secondary data	- spreadsheet	- password	component 3 revision		-data flow
Qualitative data	-data	-environment	guide	Programming	
Quantitative data	-manipulation	- disaster recovery		Algorithm	
Spreadsheet	-Malware	-server	Strategies to enable	Iteration	Strategies to enable
Modelling	-Virus	-software	new concepts,	String	new concepts,
	-Trojan		knowledge & skills to	Variable	knowledge & skills to
Reading Exposure:	-Hacker		embed in long-term	Selection	embed in long-term
Reading of	-Man in the middle	Reading Exposure:	memory:		memory:
component 3	- Phishing	Reading of	Repetition, Retrieval	Reading Exposure:	Repetition, Retrieval
revision guide	-Pharming	component 3	exercises (DIN's),	Reading of component 3	exercises (DIN's),
	-Should surfing	revision guide	chunking, low-stakes	revision guide	chunking, low-stakes
Excel for dummies 2016	-Encryption		quizzing, true false,		quizzing, true false, odd
version - FREE pdf	-Firewall	http://www.teach-	odd one out, false	Strategies to enable	one out, false
	-User access	ict.com/2016/GCSE_	facts,	new concepts,	facts, Kahoot,
	restrictions	Computing/OCR_J27	retrieval, interleaving	knowledge & skills to	retrieval, interleaving
	-Biometrics	6/1_6_network_secu		embed in long-term	
		rity/security_proced		memory:	



			Donatition Detrieval
		ures/miniweb/pg2.p	Repetition, Retrieval
		<u>hp</u>	exercises (DIN's),
			chunking, low-stakes
	Reading Exposure:	https://www.bbc.co.	quizzing, true false, odd
	Reading of	uk/bitesize/guides/z	one out, false
	component 3	9tf9j6/revision/4	facts, Kahoot,
	revision guide		retrieval, interleaving
	https://www.smartsh		
	eet.com/how-create-		
	dashboard-excel	Strategies to enable	
trategies to enable		new concepts,	
ew concepts,		knowledge & skills	
nowledge & skills		to embed in long-	
embed in long-		term memory:	
erm memory:	Strategies to enable	Repetition, Retrieval	
epetition, Retrieval	new concepts,	exercises (DIN's),	
xercises (DIN's),	knowledge & skills	chunking, low-stakes	
hunking, low-stakes	to embed in long-	quizzing, true false,	
uizzing, true false,	term memory:	odd one out, false	
dd one out, false	Repetition, Retrieval	facts,	
acts, Know it all	exercises (DIN's),	retrieval, interleaving	
inja tests,	chunking, low-stakes		
etrieval, interleaving	quizzing, true false,		
za. e raij interrea virig	odd one out, false		
	facts,		
	retrieval, interleaving		
	. strictary miterica ville		

