Subject: ICT

Year Group: 10

		Ī	Fundain the second of the seco	C::1170 :
			Explain the common reasons why projects	GpUZ8cwey
			fail.	g?e=YypsoU
			Give reasons why an iterative methodology	
			would be used.	'E-textbook
			Give reasons why a waterfall method would	Exploring
			be used.	User
11/1	Co-ordinating project	Basic project planning	Students think of a project they have	Interface
	tasks	tools: task lists, graphical	completed in school or at a club and consider	Design'
		descriptions, written descriptions and mood	what methods – if any – they used to plan	https://egg
	[Component 1, B1,	boards	and track the progress of tasks. Students	<u>buckland.sh</u>
	Project planning	Planning the project	consider how useful their plan was and if	arepoint.co
	techniques]	basics: aims and	they continued to work with it.	m/:b:/g/ict/
	B: Use project planning	objectives, audience and	If students have not made use of a project	<u>EfJuukhAZC</u>
	techniques to plan and design a user interface	purpose	plan, then students can consider why they	<u>hHmHfBkV-</u>
			didn't have one and the impacts of not	<u>e2bkBwO2f</u>
	B2 Create a project plan		creating one.	dLKg6EL-
			Research introduced to the purpose of and	<u>GpUZ8cwey</u>
			shown how to create Gantt charts, PERT	g?e=wonYTJ
			charts and critical path diagrams.	
			Research key terms: 'task dependency', 'task	'History of
			length', 'slack time' and 'critical path'.	the
			Research the following time scales and	Graphical
			dependencies: Task A – 1 day, no	User
			dependencies; Task B – 3 days, dependency	Interface'
			on A; Task C – 60 days, dependency on B;	video
			Task D – 1 day, dependency on A; Task F – 2	https://egg
			days, dependency on C and E; Task G – 15	buckland.sh
			days, dependency on F; Task H – 40 days,	arepoint.co
			dependency on E and G. Students use the	m/:f:/g/ict/
			data to create a Gantt chart, PERT chart and	EiRImp8266
			critical path diagram.	pKiyQTAe0n
			Research the benefits and drawbacks of each	38gB1lOM2
			diagram.	dhs0tSUqus

18/1	B: Use project planning techniques to plan and design a user interface B2 Create a project plan	Defining the project requirements: user requirements, output requirements, input requirements and user accessibility requirements Project constraints and risks: time, resources, task dependencies, security and contingency planning	Students should explore the project brief. They should read through the brief, filter out the information that is not important and then start to think about what is actually required. Students are required to use this project brief throughout the remainder of this component and therefore would benefit from having a good understanding of what is required. Students research basic tools that they can use to plan their project. These include task lists, graphical descriptions, written descriptions and mood boards. Students create their own mind map to illustrate a graphical description of the project brief. Students produce a written description of the buying page requirements given in the brief. Students then discuss the benefits and drawbacks of using graphical and written descriptions for this project. Students research different examples of mood boards on the internet.	j1etEsQ?e= TVvQMC
25/1	B: Use project planning techniques to plan and design a user interface B3 Create an initial design	Planning project timescales: overall timescales, when tasks will be completed, key milestones and resources What is a design specification: user requirements, output requirements and user accessibility requirements	Students demonstrate their understanding of a design specification. Students explain what they should consider when creating the various elements of the specification and why these should be considered at the design stage.	

1/2	B: Use project planning techniques to plan and design a user interface B3 Create an initial design	Designing the visuals: sketches and storyboarding Defining the hardware, software and testing strategy	Students explain the purpose of a storyboard and storyboard features. Students explain the benefits of using sketches and storyboards.	
8/2	B: Use project planning techniques to plan and design a user interface B3 Create an initial design	Designing the visuals: sketches and storyboarding Defining the hardware, software and testing strategy	Learning aim B: assessment practice Developing a functional user interface: showing the outputs, inputs and the navigational methods	
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Subject: Computer Science

Year Group: 11

Week beginn ing	Subject Topic	Key Learning points/big questions	Independent/Home learning	Linked Assessment	Resources
4/1	1.6 System Software	 Explain the different types of malware Discuss a real life malware-related event Understand how phishing operates Discuss how data can be intercepted Understand the meaning of DDOS and brute force attacks Explain the effects of a DDOS attack Explain how to be protected against DDOS attacks Understand the concept of SQL injection Explain how a vulnerability can be exploited. Explain what is meant by 'network forensics' Understand the legalities and consequences of unlawfully intercepting data Understand the concept of penetration testing 	Smart Revise – spend 1 hour answering questions on topic. Time can be split into blocks i.e. 2 x 30 minutes or 3 x 20 minutes, to suit.	Complete Learning Grid for each paper 1 topic https://eggbuckl and.sharepoint. com/:w:/g/ict/E X6KZetInSJMsrN x4qvUKi8Byu7Zl zCea1uCSmArM LiaBw?e=4VwQ bN	Resources for all paper 1 units https://egg buckland.sh arepoint.co m/:f:/g/ict/ Ep0 UrVWp UFKVF JYRK BNOMB UT SLqRN8c- kjR8YEL-

		 Explore network policies and how they can help protect networks To understand the effects of user access levels on a system To understand how and why passwords must be kept secure and the levels of complexity To learn how encryption can have a negative effect on law enforcement and investigations To understand how encryption works To demonstrate a knowledge of a cypher and its' key. 		Paper 1 practice questions https://eggbuckl and.sharepoint. com/:w:/g/ict/E ZkBGODU0xpOiz PCZKtTQAIBvbP 8VD800GOY2Q YYjSqDXg?e=vT4 jhA	fCA?e=T4QJ rW
11/1	1.7 System Software	 To understand what is meant by Systems Software To be able to describe the role and purpose of an Operating System including: User Interface Memory Management / Multitasking Peripheral Management and Drivers User Management File Management To understand the need for Utility Software To be able to describe the purpose of Encryption Software Defragmentation Data Compression To understand the role and methods of backup Full Incremental 	Smart Revise – spend 1 hour answering questions on topic. Time can be split into blocks i.e. 2 x 30 minutes or 3 x 20 minutes, to suit.	Complete Learning Grid for each paper 1 topic https://eggbuckl and.sharepoint. com/:w:/g/ict/E X6KZetInSJMsrN x4qvUKi8Byu7Zl zCea1uCSmArM LiaBw?e=4VwQ bN Paper 1 practice questions https://eggbuckl and.sharepoint. com/:w:/g/ict/E	Resources for all paper 1 units https://egg buckland.sh arepoint.co m/:f:/g/ict/ Ep0 UrVWp UFKvF JYRK BNOMB UT SLqRN8c- kiR8YEL- fCA?e=T4QJ rW Revision Guide Paper 1 and Paper 2:
18/1 + 25/1	1.8 – Ethical, legal, cultural and environmental concerns	 Understand what is meant by a key stakeholder Identify stakeholders in a range of scenarios 	Smart Revise – spend 1 hour answering questions on topic. Time can	ZkBGODU0xpOiz PCZKtTQAIBvbP 8VD800GOY2Q	Paper 1 practice questions

		2 Pagamina and dispuss issues installed to	he selit into blacks	Wiscopy 22 - 174
1		3. Recognise and discuss issues related to	be split into blocks	YYjSqDXg?e=vT4
1		Environmental, Cultural, Morals & Ethics	i.e. 2 x 30 minutes or	<u>jhA</u>
1		1. Understand what is meant by open	3 x 20 minutes, to	
,		source software	suit.	Paper 1 practice
,		2. Understand what is meant by		questions
,		proprietary software		https://eggbuckl
,		3. Understand what they are legally		and.sharepoint.
1		allowed to do with open source and proprietary		com/:w:/g/ict/E
,		software		<u>ZkBGODU0xpOiz</u>
1		1. Understand what environmental issues		PCZKtTQAIBvbP
1		could arise through the use of technology		8VD800GOY2Q
1		2. Understand what privacy issue could		YYjSqDXg?e=vT4
		arise through the use of technology		<u>jhA</u>
1/2	Paper 1 Exam	Exam Question Practice paper 1	Smart Revise –	
	Question Practice	Mix of topics	spend 1 hour	Paper 2 practice
		Review Theory	answering questions	questions
		Exam Question	on topic. Time can	
		Check Answers	be split into blocks	https://eggbuckl
			i.e. 2 x 30 minutes or	and.sharepoint.
			3 x 20 minutes, to	com/:w:/g/ict/E
			suit.	bZ2Um4rqNdGk
8/2	Paper 2 Exam Question	Exam Question Practice paper 2	Smart Revise –	Nz6-
	Practice	Mix of topics	spend 1 hour	<u>tATdZoBhkvTMe</u>
1		Review Theory	answering questions	<u>fQdamCuqfvUz</u>
		Exam Question	on topic. Time can	OdkQ?e=eQqi1u
		Check Answers	be split into blocks	
			i.e. 2 x 30 minutes or	
1			3 x 20 minutes, to	
			suit.	
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