

Year 11 GCSE Revision -

Week beginning	Topics for revision	Re-visit work	Suggested activities	Done
6 th February	Personal Digital Devices	<ul style="list-style-type: none"> • Uses of digital devices • Audience and purpose of devices and how to choose 1 • Common features • Input and output devices • How to connect devices 	<ul style="list-style-type: none"> • <i>Mind map for the uses of digital devices</i> • <i>List and explain the audience and purposes of different devices and when 1 device is more appropriate for use</i> • <i>Mind map for input and output devices and their uses</i> • <i>Be able to explain to 2 main types of connecting a device and be able to give the advantages and disadvantages of each type</i> 	
13 th February	Personal Digital Devices	<ul style="list-style-type: none"> • Mobile phones • Computers • Cameras • Media players • Games consoles • Home entertainment systems • Sat Nav 	<p>For each device type research:</p> <ol style="list-style-type: none"> 1. Main functions and added functions 2. Security methods 3. How does it suit different audiences? E.g. old, young, someone with a disability. 4. Storage and external storage 5. Any health risks 6. How multi-functional is it? <p>You could also look back over all past papers and do the 1st questions, which are always about digital devices and the difference between them.</p>	
20 th February HALF TERM	Connectivity	<ul style="list-style-type: none"> • Home networks • Network security • Using devices together 	<ol style="list-style-type: none"> 1. Explain why a home network is needed 2. List all the parts of a home network 3. Describe the function of a router in a home network 4. Compare the difference between a cable connected network and a wi-fi network. What are the advantages and disadvantages of each? 5. Explain why a cabled network is more secure than a wi-fi one? 6. List the ways to secure a wi-fi network. 7. Give 3 examples of how you could use 2 devices together. Example: if you had an image on a laptop and wanted to transfer to a tablet, how could you do it: Save the image onto a cloud storage provider, then log on to the provider 	

			using the tablet and download the image.	
27th February	Connectivity	<ul style="list-style-type: none"> • Bandwidth and latency • Wi-fi vs ethernet 	<ol style="list-style-type: none"> 1. Describe what bandwidth and latency are? 2. How are they measured? 3. Which is the best for user experience and why? 4. What are the features of a wi-fi network? 5. What are the features of an Ethernet network? 6. When would each one be best suited? 	
6 th March	Connectivity	<ul style="list-style-type: none"> • Peer-to-peer networks • Communications protocols • Securing a network 	<ol style="list-style-type: none"> 1. Explain what a peer – to – peer network is 2. What is wi-fi direct? 3. How can Bluetooth be used to set up a peer-to-peer network? 4. What are the following protocols? <ol style="list-style-type: none"> a) VoIP b) POP3 c) IMAP d) SMTP e) HTTP f) HTTPS 5. How does HTTPS work? 6. What is a digital certificate? 7. What does a firewall do? 8. What other precautions can you take to keep a network safe? 9. What is encryption? 10. Give an example of a strong password 11. What 'Physical security' can you use to protect a network? 	
13 th March	Operating Online	<ul style="list-style-type: none"> • The Internet and using the Internet • Security online 	<ol style="list-style-type: none"> 1. Define 'the Internet' 2. Define the 'World Wide Web' 	

		<ul style="list-style-type: none"> • Personal spaces 	<ol style="list-style-type: none"> 3. What is an ISP and what services do they provide? 4. Mind map all the ways to communicate on the Internet 5. Explain how a business uses: <ol style="list-style-type: none"> a) Email b) VoIP c) Cloud computing d) Video conferences 6. What is a challenge response test? 7. Why are they used? 8. What is a 'captcha' test and why are they used? 9. Mind map the different types of personal spaces that you can have online. 10. How can you keep your personal spaces private? Give 3 examples. 	
20 th March	Operating Online	<ul style="list-style-type: none"> • Information misuse • Preventing information misuse • Legislation • Copyright 	<ol style="list-style-type: none"> 1. What is a cookie and what does it do? 2. What is spyware? 3. How do hackers use spyware? 4. What is ID theft? 5. Explain why personal information is valuable to a business? 6. Explain how to prevent cookies, phishing and spyware 7. List the purposes of the Data Protection Act 8. List the 3 levels of the Computer Misuse Act and give an example of a breach of each level. 9. Mind map what is covered under the 'Copyright' act. 10. Why do we need a Copyright act? 	
27 th March	Online Goods and Services	<ul style="list-style-type: none"> • Online shopping and auctions • Online education, banking and news • Online gaming and entertainment • Businesses online • Transactional data 	<ol style="list-style-type: none"> 1. List the ways that online shops work. 2. Give the features of an online shop. E.g. ability to search 3. What is different about an online booking system than a normal shop? E.g. booking for tickets. 4. What are the advantages and disadvantages of online shopping? 5. Describe the process of how online auctions such as 'ebay' work. 6. Mind map the features of an online auction 7. What are the benefits of using an online auction site? 	

			<ol style="list-style-type: none"> 8. How can the Internet be used for education and information services? 9. How does 'online banking' work? 10. What are the advantages of using it? 11. What are the features? E.g. view transactions 12. Define what is meant by 'online gaming' 13. What is the ideal bandwidth and latency for online gaming? Explain why. 14. Why stream an online game? 15. Why download an online game? 16. What are the advantages of a business operating online? Give at least 3 advantages. 17. What are the specific advantages and disadvantages to the RETAILER of operating online? 18. Define the term 'transaction' 19. With a transaction online what data is collected? Give at least 5 things. 20. What can the transactional data be used for? 	
3 rd April	Online Goods and Services	<ul style="list-style-type: none"> • Internet adverts • Payment systems • Types of software • Response to Saas • Online vs local storage • Search engines 	<ol style="list-style-type: none"> 1. Explain why businesses use Internet advertising. 2. Give an example of a type of 'internet advert' 3. What is 'viral marketing'? 4. Why is 'viral marketing' used? 5. What is target marketing? 6. How is target marketing used? 7. How do businesses, such as 'amazon' use 'personalised techniques' 8. How can you 'opt out' of these methods of advertising? 9. What are the 4 methods of paying for goods online? 10. What is the ccv code on your credit/debit card? 11. How do you know if a website is secure? Give at least 3 ways 12. Why may a customer choose a 'bank transfer' as a method of online payment? 13. Why is a voucher a good method of online payment? 	

			<p>14. What are the advantages of using a third party payment processor like 'PayPal'.</p> <p>15. What is NFC?</p> <p>16. What are the advantages and disadvantages of NFC?</p> <p>17. What is a 'cooling off period' when you have purchased something online?</p> <p>18. Define 'Locally installed software'</p> <p>19. What are the advantages and disadvantages of locally installed software?</p> <p>20. Define 'Hosted software' (Software as a Service SaaS)</p> <p>21. What are the advantages and disadvantages of hosted software?</p> <p>22. How have commercial producers of locally installed software (such as Microsoft) responded to SaaS? Give at least 3 ways.</p> <p>23. What is the difference between open source and proprietary software?</p> <p>24. Create a table of the differences between 'local storage' and 'online storage'</p> <p>25. What would be the advantages and disadvantages of each?</p> <p>26. Explain how a search engine use 'key words'?</p>	
<p>10th April</p> <p><u>EAST</u> <u>ER</u></p>	<p>Online Communities</p>	<ul style="list-style-type: none"> • What is an online community? • Online workspaces and VLE's • Social networks • Wiki's 	<ol style="list-style-type: none"> 1. Mind map the different types of online communities. 2. Define the term 'social network' 3. What is a VLE? 4. How can it be used by a school? 5. What is the function of a social network? 6. Give the target audience for the following social networking sites: <ol style="list-style-type: none"> a) LinkedIn b) Twitter c) Facebook 7. What are the advantages and disadvantages of social networking? 8. What are the features of a 'wiki'? 	

			9. What are the advantages and disadvantages of them?	
17 th April <u>EAST</u> <u>ER</u>	Online Communities	<ul style="list-style-type: none"> • Creation of knowledge • Impact on working practices • Socialising and responsible use • A global scale 	<ol style="list-style-type: none"> 1. Mind map the ways that online communities have changed the way that knowledge is created. 2. What has been the advantages and disadvantages on working practices from online communities and ICT? E.g. collaborative working 3. Why is the Internet a good and bad thing for socialising? 4. What is an acceptable use policy? 5. Mind map how ICT is used on a global scale. 	
24 th April	Issues	<ul style="list-style-type: none"> • Security • Privacy • Monitoring • Health and safety 	<ol style="list-style-type: none"> 1. Create a mind map of all the 'security issues' you should be aware of. 2. For each of the 'issues' suggest a way to prevent it 3. Why should users 'update' their software? 4. Create a mind map of all the 'privacy issues' surrounding ICT use. 5. For each of the 'issues' suggest a way to prevent it 6. Create a mind map of the ways that you could monitor peoples use of ICT 7. What are the positive and negative ways that ICT use can affect your health. List at least 4 for each 	
1st May	Issues	<ul style="list-style-type: none"> • The impact of networks • Digital divide • Safe and responsible use • sustainability 	<ol style="list-style-type: none"> 1. What has been the impact of networks on the following: <ul style="list-style-type: none"> • working • shopping • communication • creativity 2. What is the digital divide? 3. What are the causes of the digital divide in the UK? 4. What are the causes of the digital divide worldwide? 5. List and explain the 4 implication of the digital divide. 6. Explain the Risks of using ICT and then the Responsible practice for that area. 7. List the 3 sustainability issues of ICT 8. List 3 and explain 3 ways in which sustainability in ICT could be increased. 	

8th May	Past PAPERS AND EXAM	Past Papers in: Reference – ICT – GCSE ICT – year 11 – Unit 1 papers		
15th May				
22 nd May				
29 th May HALF TERM				
5 th June				