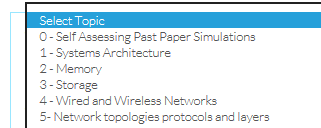
NEW: GCSE Computer Science Challenge Grid



Click [here](https://student.craigndave.org/videos/1-2-memory)

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| NEW 24:   * 1. System Architecture   What is a computer system?  -Computer system  -I/P/O  -Data bus  -Embedded computer  Task 1- Watch the video [link](http://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_1_systems_architecture/computer_system/student_videos.php)  Task 2- Now read the theory [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_1_systems_architecture/computer_system/miniweb/index.php)  Task 3- Complete the knowledge booklet [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_1_systems_architecture/computer_system/student_lesson.php) and complete the online quiz to test your knowledge  Task 4- Finally answer the exam style questions [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_1_systems_architecture/computer_system/quiz/quiz.php)  Upload all progress onto SMHWK for teacher feedback | NEW 25:   * 1. System Architecture   What’s the Purpose of CPU?  -Control Unit  -ALU  -Registers  -Cache  -Clock  Task 1- Watch the video [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_1_systems_architecture/cpu/student_video.php)  Task 2- Now read the theory [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_1_systems_architecture/cpu/student_video.php)  Task 3- Complete the knowledge booklet [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_1_systems_architecture/cpu/student_lesson.php) and complete the online quiz to test your knowledge  Task 4- Finally answer the exam style questions [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_1_systems_architecture/cpu/quiz/quiz.php)  Upload all progress onto SMHWK for teacher feedback | NEW 26:   * 1. System Architecture   Why we need to understand the Von Neumann architecture?  -architecture  -MAR & MDR  -Program Counter  -Accumulator  -Harvard architecture  Task 1- Watch the video [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_1_systems_architecture/von_neumann/student_video.php)  Task 2- Now read the theory [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_1_systems_architecture/cpu/student_video.php)  Task 3- Complete the knowledge booklet [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_1_systems_architecture/von_neumann/miniweb/index.php) and complete the online quiz to test your knowledge  Task 4- Finally answer the exam style questions [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_1_systems_architecture/von_neumann/quiz/quiz.php)  Upload all progress onto SMHWK for teacher feedback | NEW 27:   * 1. System Architecture   What is the Fetch-Decode-Execute cycle?  -Registers  -Fetch decode execute  Task 1- Watch the video [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_1_systems_architecture/fetch_execute_cycle/student_video.php)  Task 2- Now read the theory [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_1_systems_architecture/fetch_execute_cycle/miniweb/index.php)  Task 3- Complete the knowledge booklet [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_1_systems_architecture/fetch_execute_cycle/miniweb/index.php) and complete the online quiz to test your knowledge  Task 4- Finally answer the exam style questions [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_1_systems_architecture/fetch_execute_cycle/quiz/quiz.php)  Upload all progress onto SMHWK for teacher feedback | NEW 28:   * 1. System Architecture   Understanding CPU Performance factors  -Clock speed  -Multi core processors  -Cache  -RAM  -Graphics GPU  Task 1- Watch the video [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_1_systems_architecture/performance/student_video.php)  Task 2- Now read the theory [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_1_systems_architecture/performance/miniweb/index.php)  Task 3- Complete the knowledge booklet [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_1_systems_architecture/performance/miniweb/index.php) and complete the online quiz to test your knowledge  Task 4- Finally answer the exam style questions [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_1_systems_architecture/performance/quiz/quiz.php)  Upload all progress onto SMHWK for teacher feedback | NEW: 29  Test and Track  Now take a break from the theory and test your understanding on Section 1.1    [Link](https://www.testandtrack.io/) |
| NEW 30:  1.2--Memory Types  Understanding different types of memory  -Main memory  -Volatile  -RAM  -DRAM  -SRAM  -ROM  -Virtual  Task 1- Watch the video [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_2_memory/memory_types/student_video.php)  Task 2- Now read the theory [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_2_memory/memory_types/miniweb/index.php)  Task 3- Complete the knowledge booklet [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_2_memory/memory_types/student_lesson.php) and complete the online quiz to test your knowledge  Task 4- Finally answer the exam style questions [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_2_memory/memory_types/quiz/quiz.php)  Upload all progress onto SMHWK for teacher feedback | NEW: 31:  Test and Track  Now take a break from the theory and test your understanding on Section 1.2    [Link](https://www.testandtrack.io/) | NEW 32:  1.3--Storage  Why do we need secondary storage?  -Storage media & devices  -Magnetic  -Optical  -Solid state  -Data Capacity  -calculating storage  Task 1- Watch the video [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_3%20storage/secondary/student_video.php)  Task 2- Now read the theory [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_3%20storage/secondary/miniweb/index.php)  Task 3- Complete the knowledge booklet [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_3%20storage/secondary/student_lesson.php) and complete the online quiz to test your knowledge  Task 4- Finally answer the exam style questions [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_3%20storage/secondary/quiz/quiz.php)  Upload all progress onto SMHWK for teacher feedback | NEW 33:  Test and Track  Now take a break from the theory and test your understanding on Section 1.3    [Link](https://www.testandtrack.io/) | NEW 34:  1.4-WiFI and Wired networks  What are the Types of networks?  -What is a network  -Hme networks  -Business networks  -LANS  -WANS  Task 1- Watch the video [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_4_wired_wireless_networks/introduction_networks/student_video.php)  Task 2- Now read the theory [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_4_wired_wireless_networks/introduction_networks/miniweb/index.php)  Task 3- Complete the knowledge booklet [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_4_wired_wireless_networks/introduction_networks/student_lesson.php) and complete the online quiz to test your knowledge  Task 4- Finally answer the exam style questions [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_4_wired_wireless_networks/introduction_networks/quiz/quiz.php)  Upload all progress onto SMHWK for teacher feedback  o | NEW 35:  1.4-WiFI and Wired networks  Understanding the Performance of networks?  -Bandwidth  -Wired performance  -Bands and channels  -Wi-Fi performance  -Error rate  -Latency  Task 1- Watch the video [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_4_wired_wireless_networks/performance_networks/student_video.php)  Task 2- Now read the theory [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_4_wired_wireless_networks/performance_networks/miniweb/index.php)  Task 3- Complete the knowledge booklet [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_4_wired_wireless_networks/performance_networks/student_lesson.php) and complete the online quiz to test your knowledge  Task 4- Finally answer the exam style questions [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_4_wired_wireless_networks/performance_networks/student_quiz.php)  Upload all progress onto SMHWK for teacher feedback |





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Username: s361fd

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| NEW 36:  1.4-WiFI and Wired networks  Client/Server and Peer to Peer what’s the differences?  -Client server networks  -Peer to Peer networks  Task 1- Watch the video [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_4_wired_wireless_networks/client_server_peer_peer/student_video.php)  Task 2- Now read the theory [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_4_wired_wireless_networks/client_server_peer_peer/miniweb/index.php)  Task 3- Complete the knowledge booklet [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_4_wired_wireless_networks/client_server_peer_peer/student_lesson.php) and complete the online quiz to test your knowledge  Task 4- Finally answer the exam style questions [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_4_wired_wireless_networks/client_server_peer_peer/quiz/quiz.php)  Upload all progress onto SMHWK for teacher feedback | NEW 37:  1.4-WiFI and Wired networks  What Hardware is needed?  -NIC  -HUB  -Switch  -Router  -Cables  -WAP and WIFI  Task 1- Watch the video [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_4_wired_wireless_networks/hardware_needed/student_video.php)  Task 2- Now read the theory [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_4_wired_wireless_networks/hardware_needed/student_lesson.php)  Task 3- Complete the knowledge booklet [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_4_wired_wireless_networks/hardware_needed/student_lesson.php) and complete the online quiz to test your knowledge  Task 4- Finally answer the exam style questions [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_4_wired_wireless_networks/hardware_needed/quiz/quiz.php) | NEW 38:  1.4-WiFI and Wired networks  DNS, IP addressing, web hosting and the cloud how do these operate?  -ISP  -URL  -IP address  -DNS  -Web sites  -Local hosting  -External hosting  -The Cloud  Task 1- Watch the video [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_4_wired_wireless_networks/dns_hosting_cloud/student_video.php)  Task 2- Now read the theory [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_4_wired_wireless_networks/dns_hosting_cloud/miniweb/index.php)  Task 3- Complete the knowledge booklet [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_4_wired_wireless_networks/dns_hosting_cloud/student_lesson.php) and complete the online quiz to test your knowledge  Task 4- Finally answer the exam style questions [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_4_wired_wireless_networks/dns_hosting_cloud/quiz/quiz.php) | NEW 39:  1.4-WiFI and Wired networks  What are Virtual networks?  -Standard networks  -Virtual networks  Task 1- Watch the video [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_4_wired_wireless_networks/virtual_networks/student_video.php)  Task 2- Now read the theory [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_4_wired_wireless_networks/virtual_networks/miniweb/index.php)  Task 3- Complete the knowledge booklet [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_4_wired_wireless_networks/virtual_networks/student_lesson.php) and complete the online quiz to test your knowledge  Task 4- Finally answer the exam style questions [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_4_wired_wireless_networks/virtual_networks/quiz/quiz.php) | NEW 40:  Test and Track  Now take a break from the theory and test your understanding on Section 1.4    [Link](https://www.testandtrack.io/) | NEW 41:  1.5-Networks  Understanding the different Network topologies?  -Star network  -Mesh network  Task 1- Watch the video [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_5_topologies_protocols_layers/network_topologies/student_video.php)  Task 2- Now read the theory [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_5_topologies_protocols_layers/network_topologies/miniweb/index.php)  Task 3- Complete the knowledge booklet [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_5_topologies_protocols_layers/network_topologies/student_lesson.php) and complete the online quiz to test your knowledge  Task 4- Finally answer the exam style questions [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_5_topologies_protocols_layers/network_topologies/quiz/quiz.php) |
| NEW 42:  1.5-Networks  Why Protocols are used in networks?  -Protocols  -TCP/IP  -HTTP/HTTPs  -FTP  -POP, IMAP, SMTP  -Ethernet  -The four layer model  Task 1- Watch the video [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_5_topologies_protocols_layers/protocols_addressing/student_video.php)  Task 2- Now read the theory [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_5_topologies_protocols_layers/protocols_addressing/miniweb/index.php)  Task 3- Complete the knowledge booklet [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_5_topologies_protocols_layers/protocols_addressing/student_lesson.php) and complete the online quiz to test your knowledge  Task 4- Finally answer the exam style questions [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_5_topologies_protocols_layers/protocols_addressing/quiz/quiz.php) | NEW 43:   * 1. Networks   Packet Switching?  -Circuit switching  -Packet switching  Task 1- Watch the video [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_5_topologies_protocols_layers/packet_switching/student_video.php)  Task 2- Now read the theory [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_5_topologies_protocols_layers/packet_switching/miniweb/index.php)  Task 3- Complete the knowledge booklet [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_5_topologies_protocols_layers/packet_switching/student_lesson.php) and complete the online quiz to test your knowledge  Task 4- Finally answer the exam style questions [link](https://teach-ict.com/2016/GCSE_Computing/OCR_J276/1_5_topologies_protocols_layers/packet_switching/quiz/quiz.php) | NEW 40:  Test and Track  Now take a break from the theory and test your understanding on Section 1.5    [Link](https://www.testandtrack.io/) |  |  |  |