

YEAR 10 – ICT

WEEK 5 (27th Sep to 1st Oct) – ICT Theory

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| Class/ Division | Year 10 A-F |
| Work sent to the students via | Google Classroom / Group Email/Zoom |
| Total number of lessons per week | 2 |
| Lesson 1 | Chapter 5 – Networks –via zoom How devices are identified on a network. |
| Learning objectives | <ul style="list-style-type: none">• To be able to explain the differences between IP and MAC addresses• To be able to understand the difference between IPv4 and IPv6 |
| Resources | Pearson Edexcel International GCSE(9-1) ICT text book – pgs. 80-81 PowerPoint presentation https://www.youtube.com/watch?v=aor29pGhIFE |
| Task | Activity 1: Research work- Find the maximum number of addresses that can be provided by IPv6 Activity 2: Difference between static and dynamic IP address |
| Lesson 2 | Chapter 5 – Networks –via zoom |
| Learning objectives | <ul style="list-style-type: none">• To be able to know the use of machine address code (MAC) address.• To be able to understand the difference between MAC address and device name. |
| Resources | Pearson Edexcel International GCSE(9-1)ICT text book – pgs. 82-83 PowerPoint presentation https://answers.uillinois.edu/uic/page.php?id=94431 https://www.digitaltrends.com/computing/how-to-change-mac-address/ |
| Task | Activity 3: Check IP addresses, MAC addresses and device name of your personal computer. Activity 4: What is spoofing? How spoofing would affect the restricting and allowing access to a network, identifying a device on a network, tracking a device and assigning a static or fixed IP address. |

WEEK 5(27th Sep to 1st Oct) – ICT Practical

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| Class/ Division | Year 10 A-F |
| Work sent to the students via | Google Classroom / Group Email/Zoom |
| Total number of lessons per week | 2 |
| <p>Lesson 1</p> <p>Learning objectives</p> <p>Resources</p> | <p>Image editing (Paint) - via Zoom</p> <p>To be able to</p> <ul style="list-style-type: none"> • Edit images by resizing, rotating and cropping • Add captions and text • Add a border and changing background colour. <p>Pearson Edexcel International GCSE(9-1) ICT text book – pgs. 239 - 245. PowerPoint presentation</p> <p>Resource video links: https://www.youtube.com/watch?v=T8_kaxXi3L4 https://www.youtube.com/watch?v=E_Zc5UNvDi8</p> |
| <p>Lesson 2</p> <p>Learning objective</p> <p>Resources</p> <p>Task</p> | <p>Image editing (Paint) - via Google classroom</p> <p>To be able to understand</p> <ul style="list-style-type: none"> • how to remove a part of an image and add text by choosing the right text colour in contrast to the background of the image. <p>Pearson Edexcel International GCSE(9-1) ICT text book – pgs. 239 - 245. PowerPoint presentation</p> <p>Task 5 – AIRPLANE</p> <p>Activity questions and corresponding data files will be posted in Google Classroom.</p> |