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| **What is a Computer Network?** |
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| **Using a computer connected to a network allows us to…** |
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| **Type of backup** | **Describe the role of each component in a network?** |
| **Server:** |  |
| **Router:** |  |
| **Hub:** |  |
| **Switch:** |  |
| **Bridge:** |  |

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| **What are the differences between Bluetooth and Wifi?** | |
| **Bluetooth** | **Wifi** |
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| **What is the purpose of a Firewall?** |
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| **What is the purpose of a Proxy Server?** |
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| **What are the differences between the internet and Intranet?** | |
| **Internet** | **Intranet** |
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| **What is data Encryption?** |
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| **Describe Three methods of authentication (Network Security)?** |
| **1)** |
| **2)** |
| **3)** |

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| **Provide a brief description of the following types of Networks?** | | |
| **LAN** | **WAN** | **WLAN** |
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| **Use examples to describe the difference between a weak password and a strong password** |
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| **Describe how data is sent from a networked computer to a computer on a different network.** |
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| **Describe two similarities between physical faxing and electronic faxing.** |
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| **Describe three differences between physical faxing and electronic faxing.** |
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| **Describe four items which can be provided by an ISP.** |
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| **Give three reasons why some companies have intranets.** |
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| **Explain, using examples, what is meant by authentication techniques.** |
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| **Describe the differences in use between WiFi and Bluetooth.** |
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| **In order to make reliable information available to all students, schools often put the information on their intranet. Describe what is meant by an intranet.** |
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| **Most data protection acts include the principle that data should be stored securely. List four other principles of a typical data protection act.** |
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| **Fiona wants to communicate with her friend Myfanwy using her mobile phone.**  **Describe four ways she could do this.** |
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| **Describe the details of computer addresses that are stored by a router.** |
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| **Internet banking can be used by bank customers to check their account balance.**  **Many ways of logging into such a system involve the use of passwords.**  **Describe three methods of minimising the possibility of passwords being misused if intercepted.** |
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| **Juanita has a computer and a contract with an ISP. When she searches the internet she does not find relevant information quickly.**  **Describe three ways she could reduce the amount of excess information she gets without changing either her computer or ISP.** |
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| **Discuss the effectiveness of different methods which could be used to prevent unauthorised access to a laptop computer.** |
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| **Tick whether the following statements would most appropriately apply to the internet or an intranet.** |
| **A piece of programming code which maliciously deletes files is called**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **The scrambling of data to make it unreadable by unauthorised users is called**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **A school’s Science department has a network which uses WiFi. A teacher has a laptop computer and whilst in school wishes to connect to this network.**  **Write down the name of this type of network.**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **In order to access the network the laptop must be within range of a type of WiFi network device.**  **Write down the name of this type of device.**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Describe how this device is connected to the network using an ethernet cable.**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **WiFi networks can be limited in their range.**  **Describe one other disadvantage of a WiFi network compared to a cabled network.** |
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| **Explain what is meant by VOIP.** |
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| **Name two items of computer hardware that are needed in order to make a VOIP phone call from one computer to another.** |
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| **Tick whether the following are features of emails or traditional faxes.** |
| **Tick whether the following statements are true or false.** |
| **Describe what an ISP is and, apart from security measures, describe what it offers its customers.** |
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