Target for this cycle Choose an item.

Name:Click here to enter text.

**A computer system**

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| **Define a computer - fill in the in diagram** |
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| **Input Devices** |
| Image | Name | More Detail |
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| **Explain what an input device is and why they are needed.** |
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| **Output Devices** |
| Images | Name | More Detail |
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|  |  |  |
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| **What is an OUTPUT? Why I are they needed?** |
|  |
| **Storage Devices and Communication Devices** |
| Image | Photo | More detail. |
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| Image result for AQA logo**Exam Questions.**

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| 1. **State what is meant by a storage device, an input device and an output device in a computer system. [3]**
 |
| Storage Device:Input Device:Output Device: |
| 1. **A shopping centre uses several remote-controlled CCTV cameras for security. An operator uses a computer to watch, control and record the output of the cameras.**

**State an input, output and storage device which will be needed by the computer. For each, explain the reason why it is needed. [9]** |
| * Input device -

Reason - * Output Device -

Reason - * Storage Device-

Reason -  |

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**So what is inside a computer?**

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| **Define hardware** | **Define internal Hardware** |
|  |  |
| **Summary of Internal Components** |
| Image | Name | Main Role |
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**Lets look a little deeper.**

**The CPU**

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| **CPU stands for** | **Define it.** |
|  |  |
| **The Fetch Decode and Execute Cycle** |
|  |
| Image result Who is John Von Neumann? | What did he develop? |
|  |  |  |
| Tell me more? |
|  |
| Von Neuman Archiecture |
| **CPU**Cache |  |
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| Factors that determine the **Performance of the CPU** |
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| **Exam Questions.**

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| Image result for AQA logo |
| 1. C:\Users\PThornton\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\IG5I9SI2\481px-Ada_Lovelace_1838[1].jpg **Jo buys a notebook computer which has a 3MHz quad-core central processing unit (CPU).**

**C:\Users\PThornton\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\AEWXH6AP\AlanTuring[1].jpgState the purpose of the CPU. [1]** **State the purpose of the CPU and explain how it works with memory to do this. [3]** |
|  |
| 1. C:\Users\PThornton\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\IG5I9SI2\481px-Ada_Lovelace_1838[1].jpg**Describe what is meant by**

**3MHz CPU** **quad-core CPU**C:\Users\PThornton\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\AEWXH6AP\AlanTuring[1].jpg**2. Describe what is meant by the following and describe with the use of a 3rd example how these impact on performance of computer****3MHz CPU** **quad-core CPU** |
| C:\Users\PThornton\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\AEWXH6AP\AlanTuring[1].jpgC:\Users\PThornton\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\IG5I9SI2\481px-Ada_Lovelace_1838[1].jpg**Describe the fetch decode execute cycle.** **Explain the fetch decode execute cycle, using the Von Neumann Architecture** |
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| **RAM stands for** | **What does it do? What data does it hold?** | **Other key points** |
|  |  | Image result for RAM |
| **ROM stands for** | **What does it do? What data does it hold?** |  |
|  |  |  |
| **Cache. What is the point of cache?****Describe the Levels** |
|  |
| **Volatiltiy** |
|  |
| **RAM vs ROM** |
| RAM | ROM |
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| Image result for AQA logo **Exam Questions**

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**Lets look a little deeper.**

**Memory (primary storage)**

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| **Why do we need Secondary Storage?** |
|  |
| **Magentic Discs** |
| Image | Examples of | Key Advantages |
|  |  |  |
| Key Disadvantages |
|  |
| **How it works.** |
|  |  |
| **Optical Drive**  |
| **Image** | **Examples of**  | Key Advantages |
|  |  |  |
| Key Disadvantages |
|  |
| **Solid State** |
| **Image** | **Examples of** | **Key Advantage** |
|  |  |  |
| **Key Disadvtages** |
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| Image result for AQA logo **Exam Questions**

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