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| **Core Knowledge Map** |
| Subject: Computer Science | Year: 7 | Term: 2.0 |
| What are we learning? |
| What components make up a computer systemWhat function each computer component performs  |
| How will I be assessed  |
| There will be a checklist of things you have done, and a short research task for you to complete |
| Big questions: |
| What is hardware, what is software and what is the difference?What is a processor? What is storage and what is memory?How do we represent numbers in binary? |
| How does this build on previous learning? | How will this link to my future learning? |
| This builds on the concepts introduced in the history of computing topic | This will lead into the programming a computer and creative computing topics |
| Core knowledge: | Key vocabulary: |
| The function of the following:* CPU
* Motherboard
* Power supply
* Case
* Memory (RAM)
* Storage
* Graphics processing unit
* Cooling

How is computer performance affected by the components of the system* What types of storage are suitable for each application
* What difference does data access speed make to primary and secondary storage

Basic binary representation (8 bit) | Processor – Central Processing Unit- CPUMotherboardPCIPCIeDIMMSocketConnectorCoolerFan |
| Need more help? |
| 1. [Hardware and software - Computer systems - AQA - GCSE Computer Science Revision - AQA - BBC Bitesize](https://www.bbc.co.uk/bitesize/guides/z7qqmsg/revision/1)
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