|  |  |  |  |
| --- | --- | --- | --- |
| **Core Knowledge Map** | | | |
| Subject: Computer Science | Year: 7 | | Term: 2.0 |
| What are we learning? | | | |
| What components make up a computer system  What 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- CPU  Motherboard  PCI  PCIe  DIMM  Socket  Connector  Cooler  Fan | |
| 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) | | | |