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| **Core Knowledge Map** |
| Subject: Computer Science | Year: 10 | Term: 1.0 |
| What are we learning? |
| The types and function of the components that make up a computer system |
| How will I be assessed  |
| There will be several workbooks, with feedback and your programming workbook will be assessed |
| Big questions: |
| How do computers work?How is information stored digitally?What affects the performance of computer systems? |
| How does this build on previous learning? | How will this link to my future learning? |
| This is an extension of many of the topics covered in Key Stage 3, with some new concepts covered as well. | Many future topics will expand on the basic principles learned here:Boolean AlgebraBinary ArithmeticNetworking and more. |
| Core knowledge: | Key vocabulary: |
| The function of the CPU and it’s componentsThe Fetch, Decode, Execute CycleThe storage of data The way that data size is calculatedThe way computer system performance is measuredProgramming Skills | CPU, ALU, MAR, MDR, Program CounterBus,Hz, MHz, GHzFLOPs, GFLOPs, TFLOPs, PFLOPsBinaryDecimal/DenaryHexadecimal |
| Need more help? |
| 1. [SLR1.1 – Systems architecture – Craig 'n' Dave | Students (craigndave.org)](https://student.craigndave.org/videos/slr1-1-systems-architecture)
2. [SLR1.2 – Memory and storage – Craig 'n' Dave | Students (craigndave.org)](https://student.craigndave.org/videos/slr1-2-memory-and-storage)
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