

Computer Science Summer Tasks

Computers were created to process data and solve problems faster than a human can. They have come a long way since the adoption of the Personal Computer in homes since the 1980's. Your generation has grown up with technology being fully integrated into everyday life since you were born.

Task One

Explain how computers have been a part of your life; what has led you to pursue the study of Computer Science at A-Level? *This should be a page of typed A4.*

Task Two

Future technologies. Where do you think we are heading as a society? Is technology taking us to a brighter tomorrow, or a dystopian future? Discuss your thoughts with a balanced response (i.e. give both sides to the argument). *This should be a page of typed A4.*

Task Three

Software Development. A-Level Computer Science covers a great deal of theoretical content in Computer Science, however there is a large practical component that is covered through programming. You will be tasked with creating a project that meets the needs of an identified stakeholder for your A-Level. Research and describe the following key terms, you should give your interpretation of what each of them means:

1. Waterfall cycle
2. Agile development
3. Functional Programming
4. Iterative Development
5. Object Oriented Programming
6. Test Driven Development