A-level Computer Science

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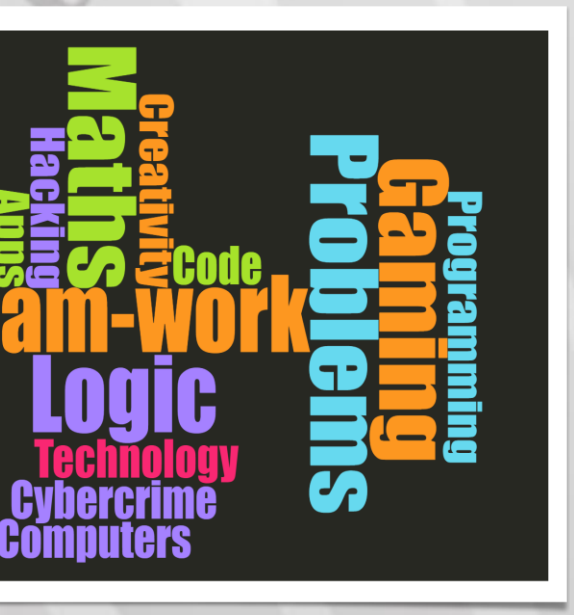

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Why choose Computer Science?

Technology is embedded in every aspect of our lives.

Computer Science is being used help solve many of the world's biggest problems

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What does the course cover?

- Internal computer components
- Cyber security
- Data representation
- Effect of digital technology on society
- Programming
- Networking and the Internet
- Software development

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Year 12 and 13 - A-Level (All units externally assessed at the end of Year 13)

- Unit 1 will be a written examination theory paper and will focus on computing principles - 40%
- Unit 2 will be a written paper that will focus on algorithms and problem solving - 40%
- Unit 3 will be coursework and will focus on developing a programming project - 20%

- In addition to these externally assessed pieces of work, students will receive on-going assessment and feedback through project mark sheets for the coursework topics to feedback on their exam skills from written questions.

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Skills in Computer Science can offer you an incredible wide range of jobs!

There are almost no job sectors which don't make use of skills related to:

- Information Technology
- Computer Science

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What other courses does it complement?

- The course will complement a wide range of subjects, including Mathematics, Technology/Engineering and Science.

Next steps - what this course can lead to

- The course will allow you to access a wide range of further education courses at University including a degree in Computing which could lead to a career such as Business systems engineer; Data analyst; Database administrator; Games developer; Information systems analyst; IT consultant; IT trainer; Mobile application developer; Network engineer; Network specialist; Software developer or engineer; Systems architect or Teacher to name a few

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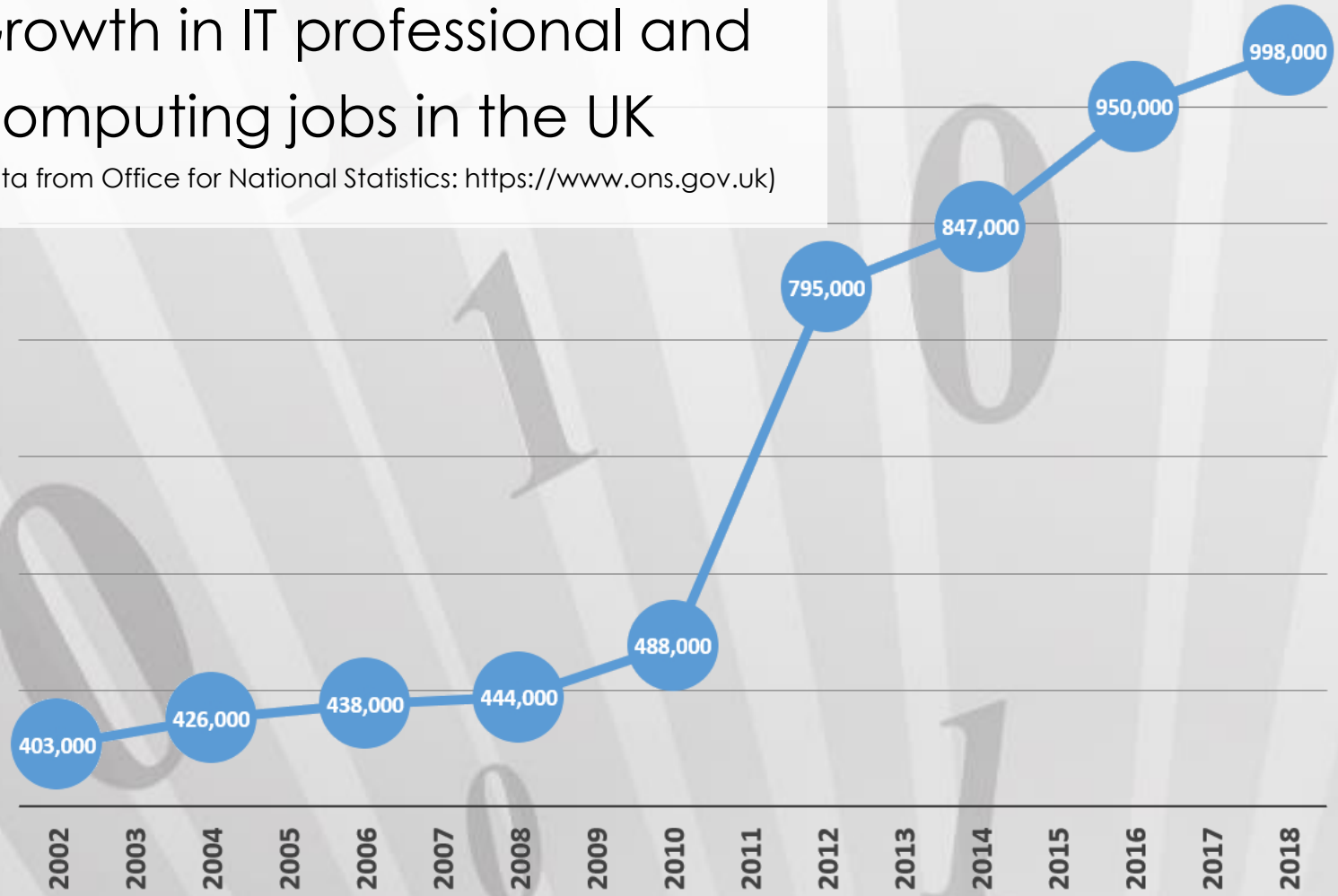
Growth in IT professional and Computing jobs in the UK

(Data from Office for National Statistics: https://www.ons.gov.uk)



Growth in this sector is predicted to continue to grow!

Did you know the computer games industry is bigger than the film and music industries combined?

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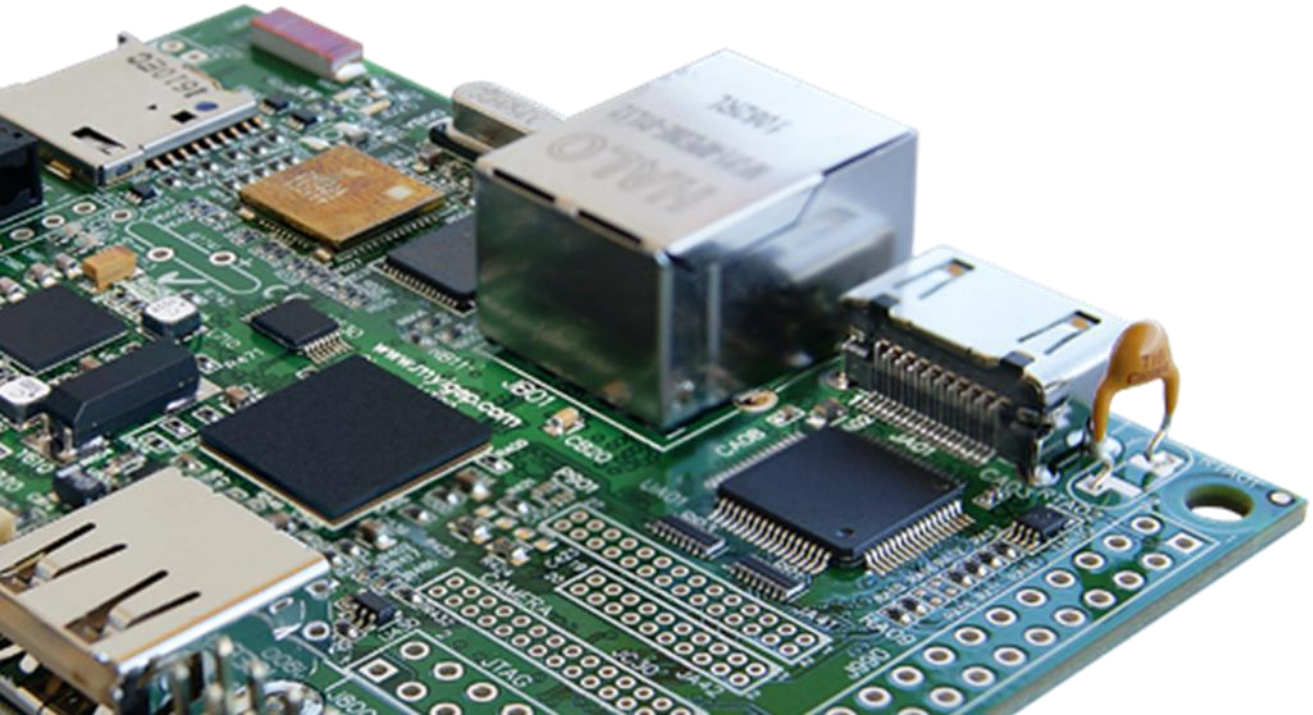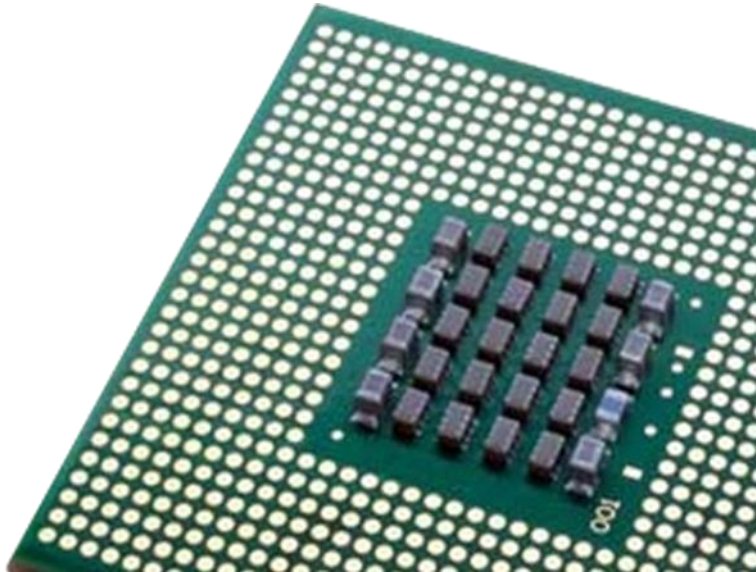
"Computer Science is no more about computers than astronomy is about telescopes." - Edsger W. Dijkstra