

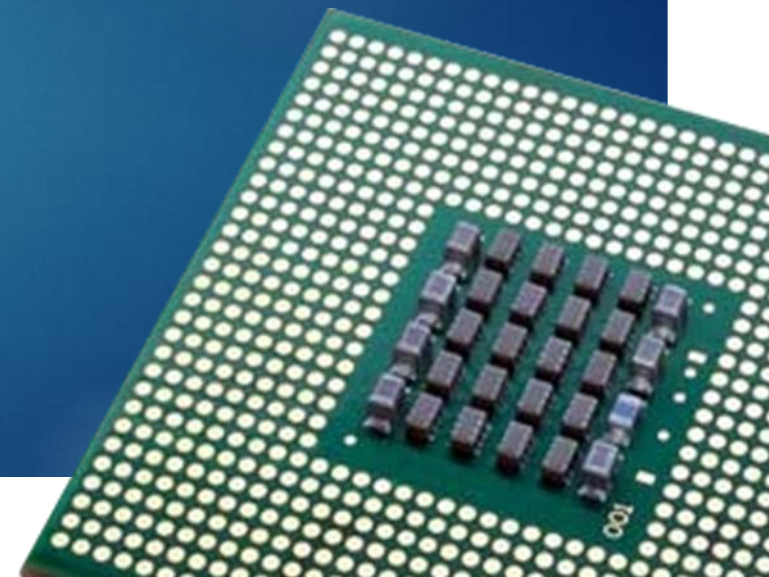


# Sixth Form Open Evening

COMPUTING DEPARTMENT

# Why should I study Computer Science ?

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



When someone says,  
**“Computer Science”**  
what do you think of?



Programming  
Gaming  
Problems  
Team-Work  
Logic  
Technology  
Cybercrime  
Computers  
Maths  
Creativity  
Code  
Hacking  
Apps  
Internet  
Science  
Collaboration



# Why choose Computer Science?

**Technology** is embedded in every aspect of our lives.

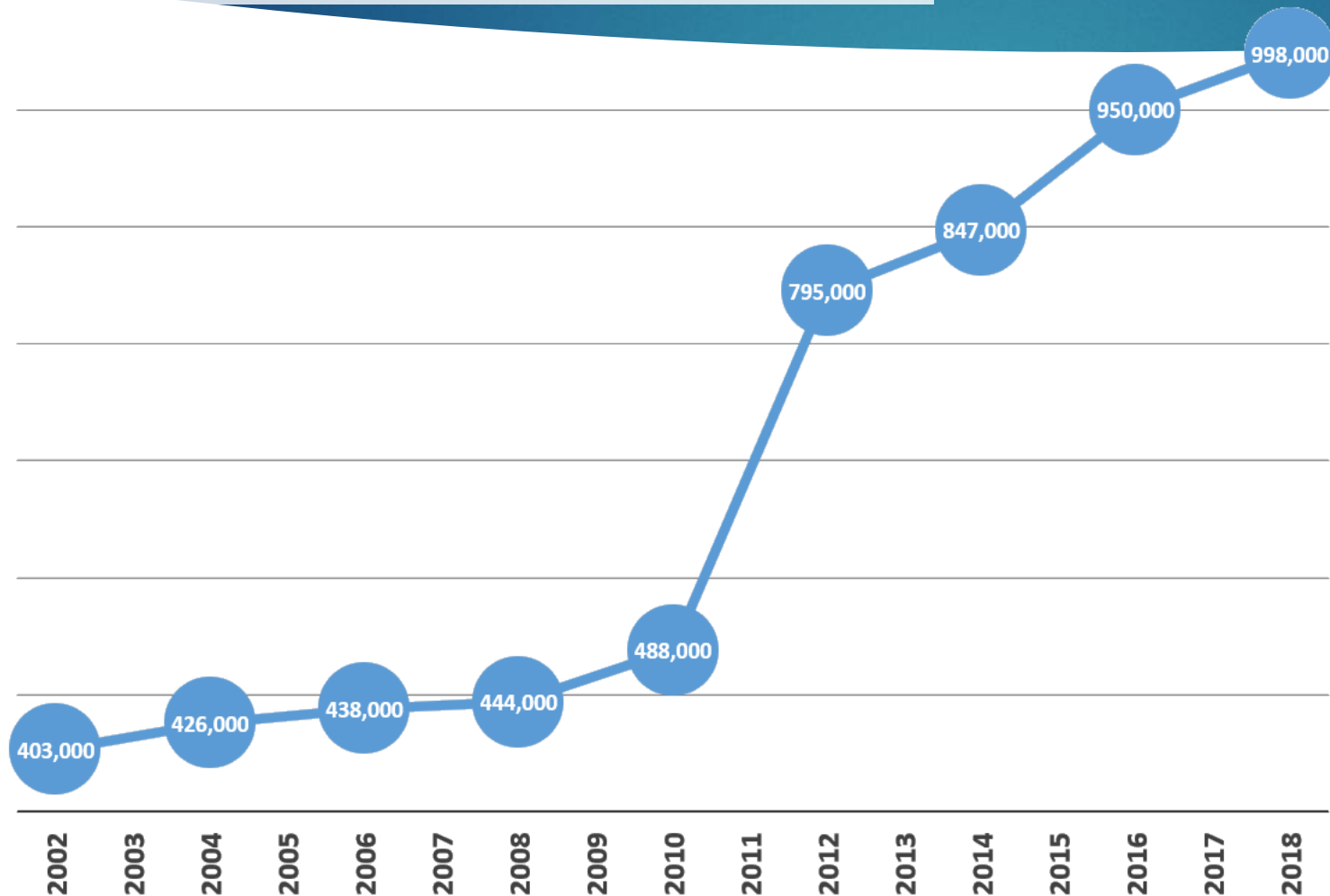
**Computer Science** is being used to help solve many of the world's biggest problems



**Terrorism**  
**Unemployment**  
**Deforestation**  
**Climate-change**  
**Access-to-education**  
**Access-to-clean-water**  
**Safety-&-Security**  
**Global-warming**  
**Cyber-threats**  
**Inequality**  
**Poverty**

# 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?





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



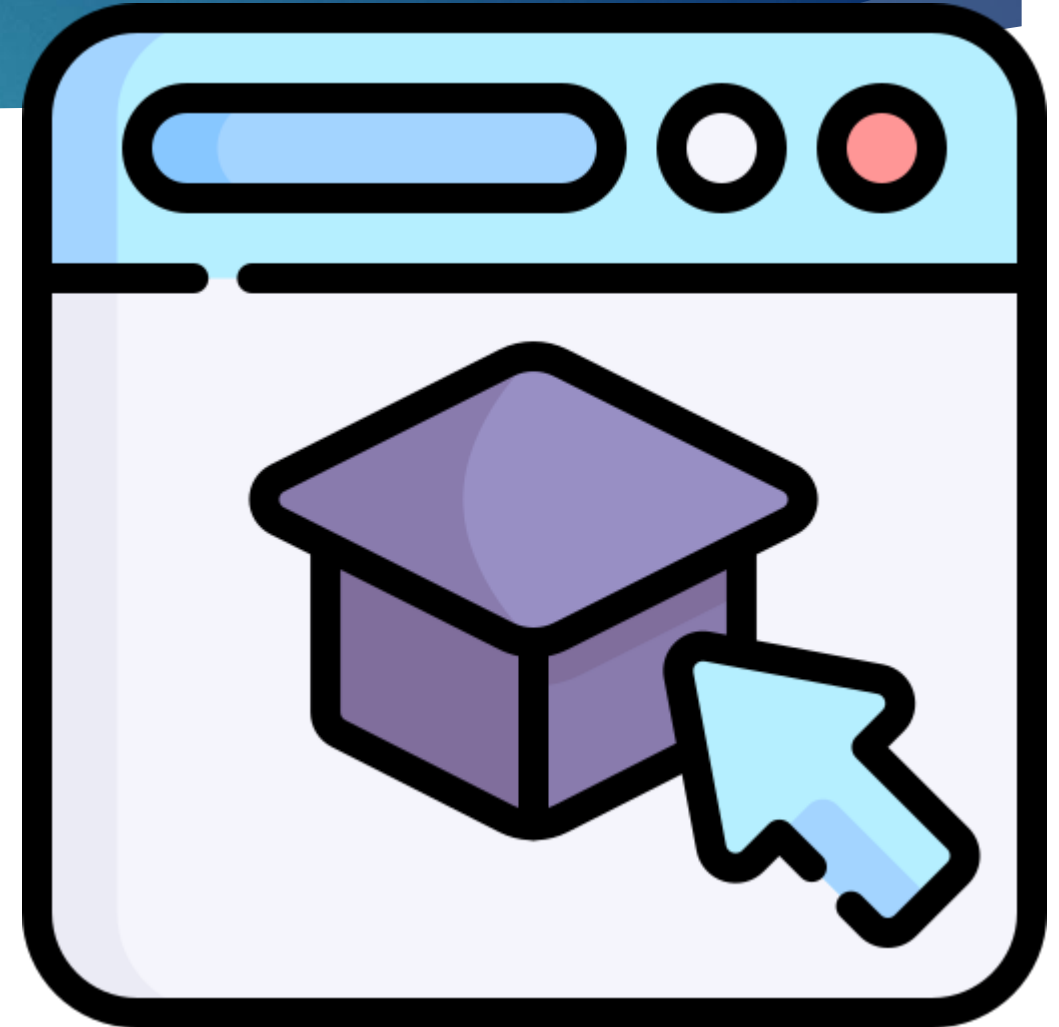
Gaming  
Research  
Medicine  
Marketing  
Consulting  
Banking  
Law  
Healthcare  
Retail  
Defence  
Manufacturing  
Cyber-security  
Films  
Tourism  
Finance  
Agriculture  
Advertising  
Environment  
Government

# What does the Computer Science course cover?



# 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



# OCR A level course structure

	Component 1: Computer systems	Component 2: Computational thinking, algorithms and programming	Practical programming experience
How is it assessed	Written exam 2 hour 30 minutes	Written exam 2 hour 30 minutes	Marked by your teacher and moderated by OCR.
How much is it worth	140 marks Worth 40%	140 marks Worth 40%	70 marks Worth 20%
Other information	A series of short-answer and extended-answer questions.	A series of short-answer and extended-answer questions.	Assesses student's ability to use the knowledge and skills gained through the course to solve or investigate a practical problem.

# How will I learn?

The A-level course is split between two teachers, who will guide you through the course.

We use google classroom to disseminate resources as we find this helps students to stay organised, keeps all the content in one place and allows us to support effective teaching in the current climate.

We teach python programming as our preferred high level language, however you can choose from a range of OCR endorsed languages to support your coursework.





# Results

Over the past 4 years we have maintained the 100% A-E grade pass rate



# What do the current students think?



# Eleanor W (Current Y12)

- ▶ *"I chose Computer Science because... technology is everywhere and its only going to increase in the future. This means there are so many opportunities in this area, and these are only going to increase. Computing at Poynton Sixth form is the perfect stepping stone to so many careers and provides skills that are transferable to countless other pathways. Despite its reputation as an abstract and difficult subject, the content is applicable to so many real world situations, the teachers make the lessons engaging and you feel that you are really achieving something every lesson."*



# Nicholas C (Current Y12)

- ▶ *"I chose computer science as it is a great start to further education and will provide many high level jobs on the future. It is an amazing and interesting A-Level. (Plus the teachers are pretty cool)"*



# Michael H (Current Y12)

- ▶ *“I chose to do computer science as its the subject I enjoy the most and can lead to a lot of career paths”*





# Adam H (Current Y12)

- ▶ *"Its the future of industry and general employment, also video games."*





Where can it take  
me after Sixth  
Form?



# Some of the destinations and courses of last year's Computer Science cohort

Sheffield Hallam University	Computer Science
University of Manchester	Computer Science with an Integrated Foundation Year
University of Chester	Computer Science
Lancaster University	Computer Science
Leeds Beckett University	Computer Science
University of Leicester	Creative Computing
Nottingham Trent University	Computer Science
Sheffield Hallam University	Software Engineering
The University of Edinburgh	Artificial Intelligence & Computer Science
University of York	Computer Science/Mathematics (Equal) (Yr in Ind)



## Where to get more information

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