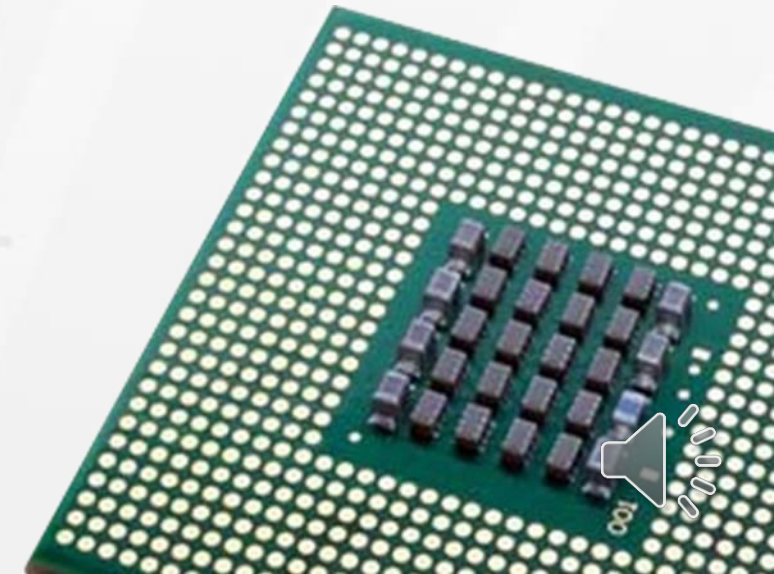
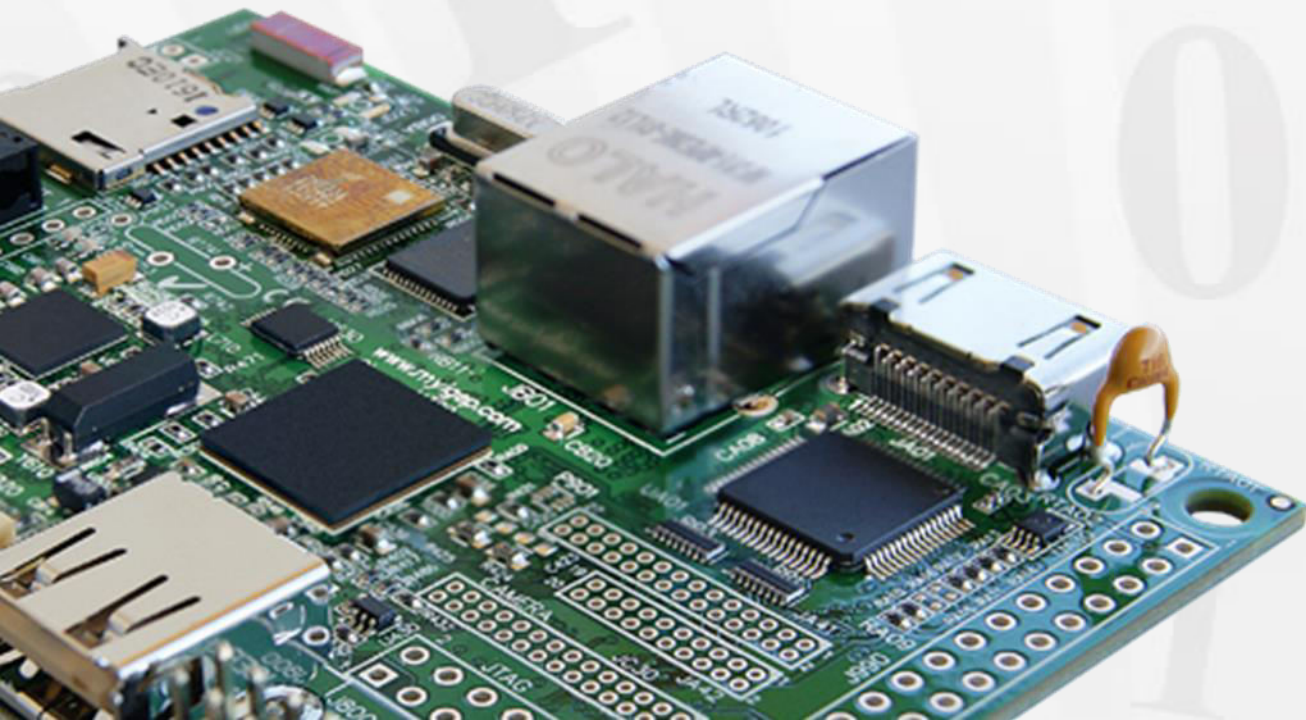


OPTIONS TALK

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

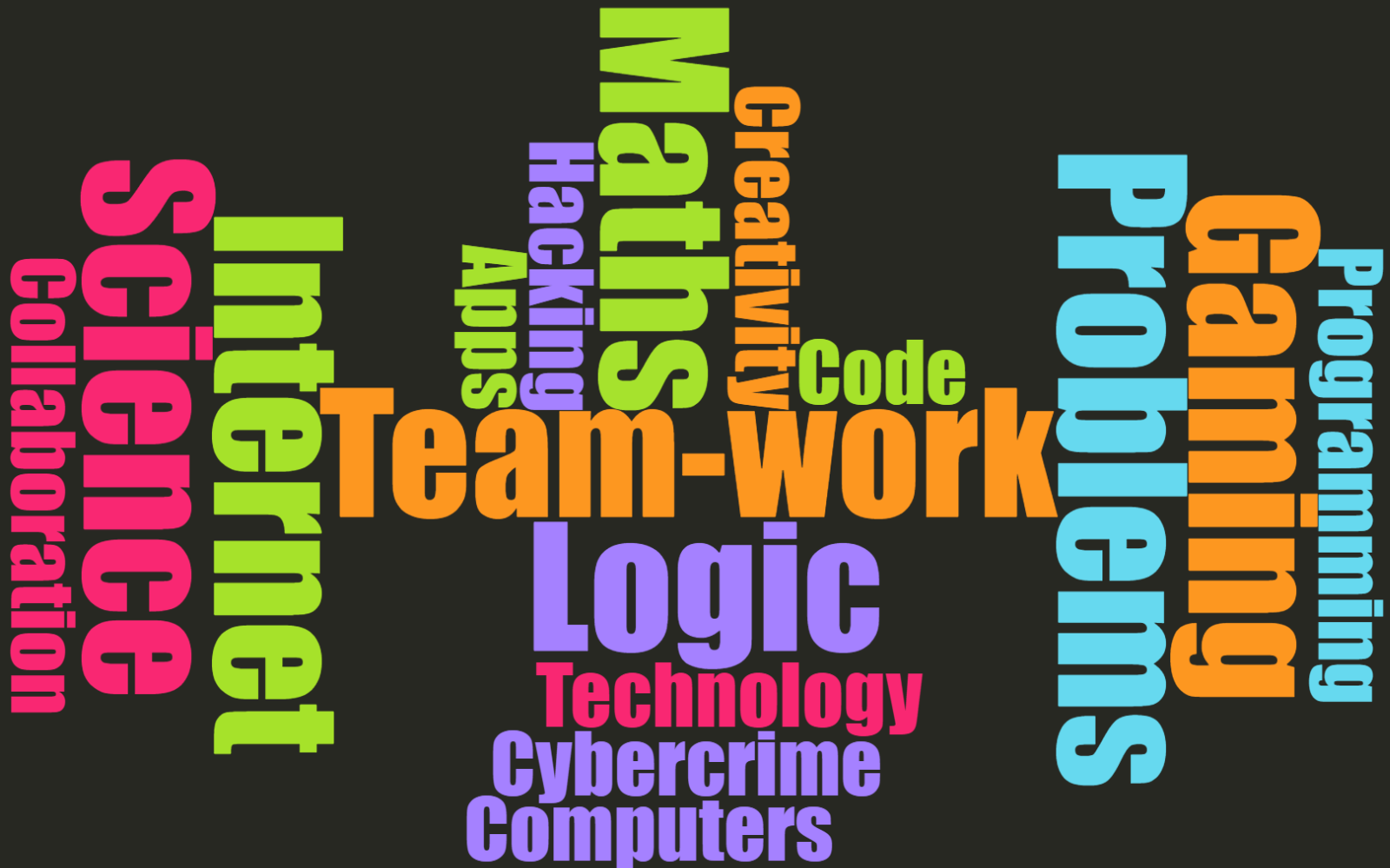


OPTIONS TALK

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



OPTIONS TALK



OPTIONS TALK

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.



OPTIONS TALK

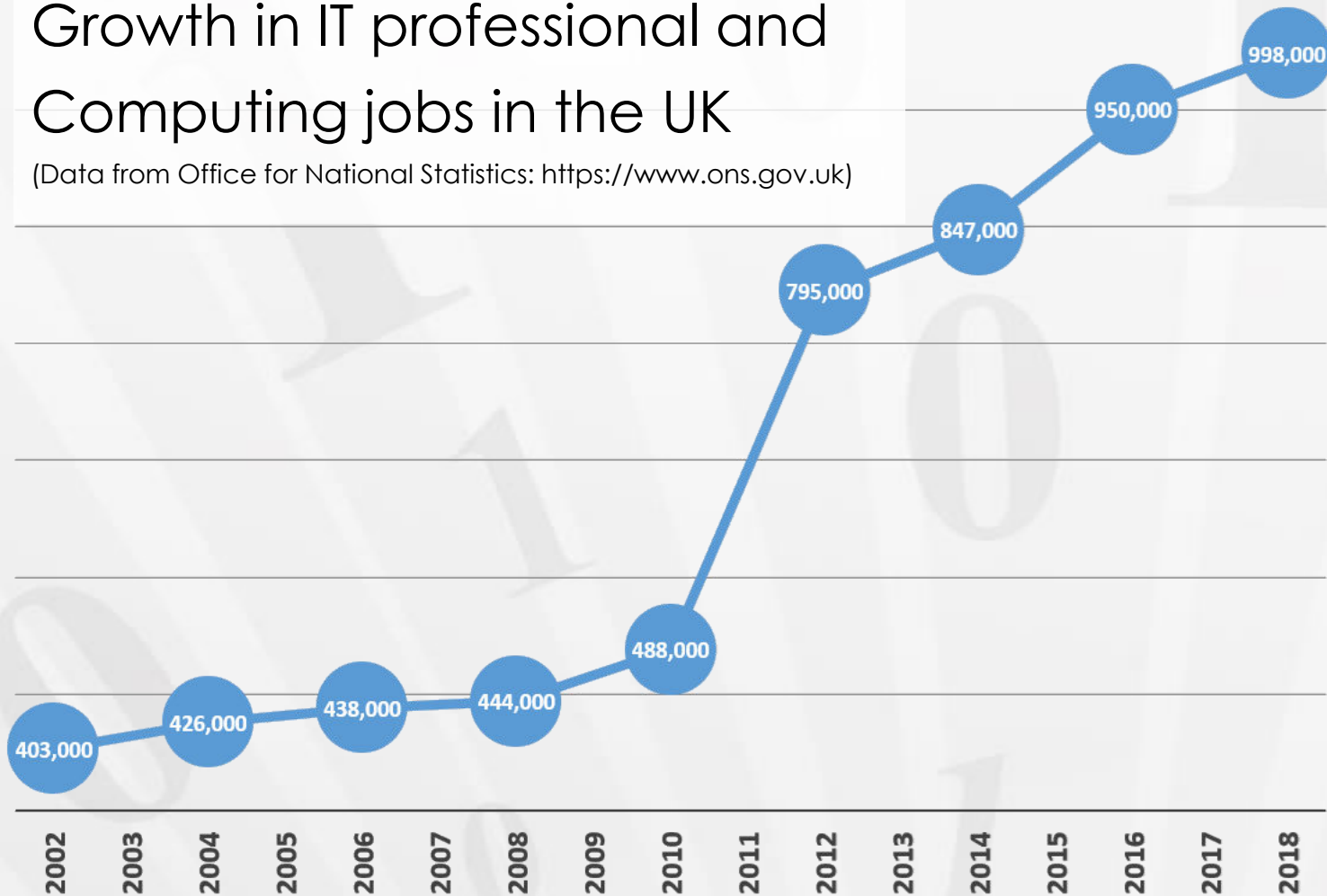
Terrorism
Unemployment
Deforestation
Climate-change
Access-to-education
Access-to-clean-water
Safety-&-Security
Global-warming
Cyber-threats
Inequality
Poverty



OPTIONS TALK

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?

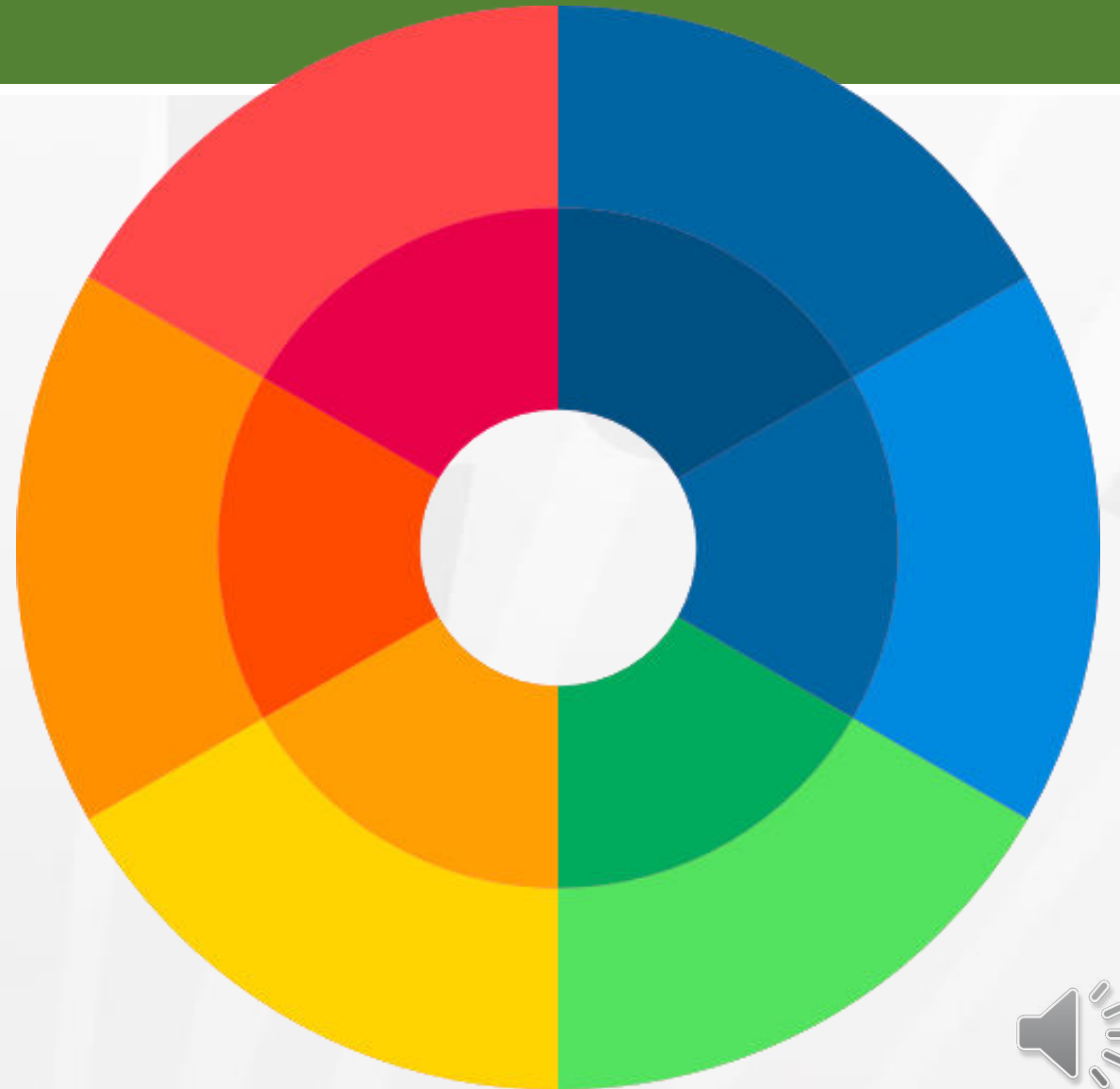


OPTIONS TALK

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



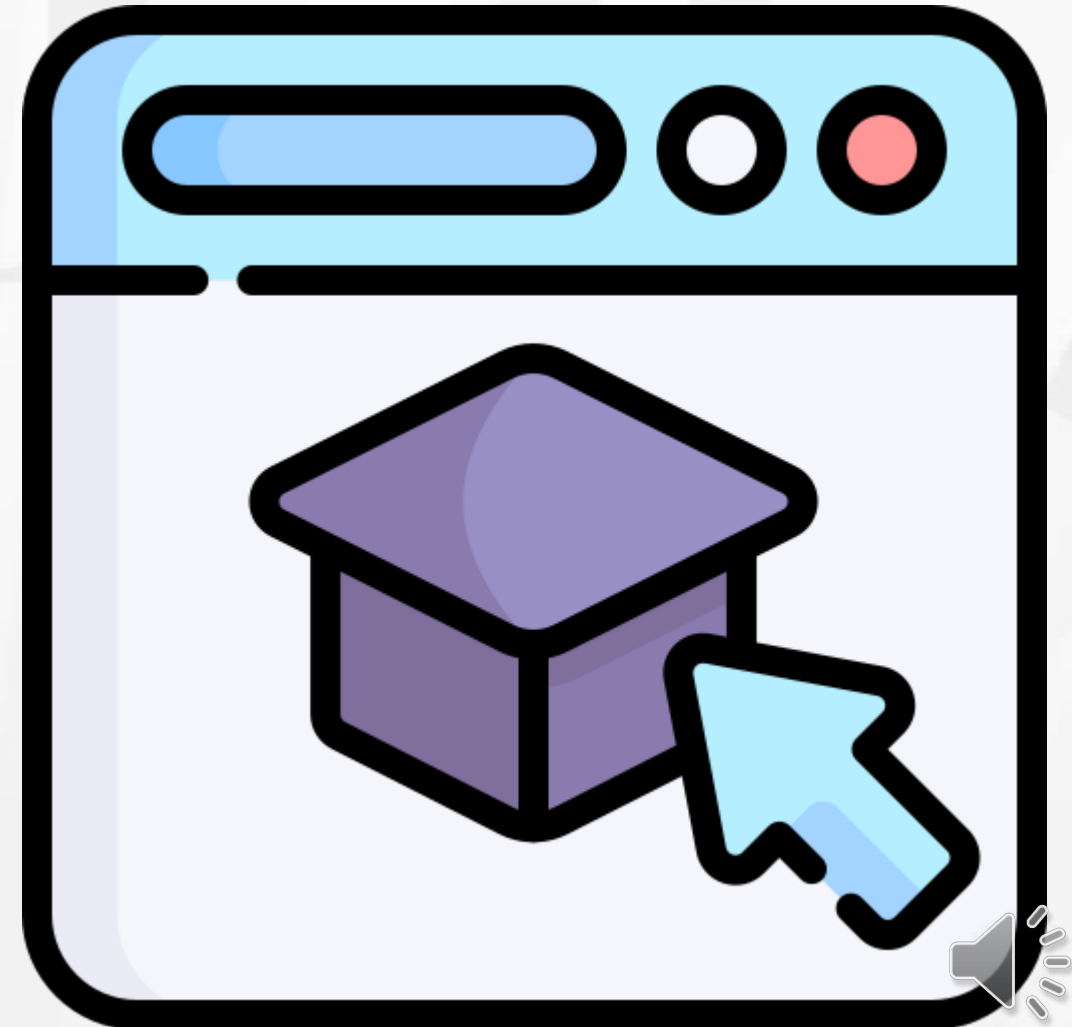
OPTIONS TALK



OPTIONS TALK

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



OPTIONS TALK

OCR GCSE course structure

	<u>Component 1:</u> Computer systems	<u>Component 2:</u> Computational thinking, algorithms and programming	Practical programming experience
How is it assessed?	Written exam 1 hour 30 minutes	Written exam 1 hour 30 minutes	Not formally assessed
How much is it worth?	80 marks Worth 50%	80 marks Worth 50%	Not formally assessed
Other information.	A mix of multiple choice, short answer, longer answer and extended response questions assessing a student's theoretical knowledge.	A mix of multiple choice, short answer and longer answer questions assessing a student's practical problem solving and computational thinking skills.	You will be provided with opportunities to design, develop and test computer programs to solve a range of problems without the pressure of it counting towards the GCSE.



OPTIONS TALK

Component 1 – Computer Systems

Weighting: 50%

Externally Assessed

Exam - 1 hour 30 minutes

- Systems architecture
- Memory
- Storage
- Wired and wireless networks

- Network topologies, protocols and layers
- System security
- Systems software
- Moral, legal, cultural and environmental concerns

Component 2 – Computational Thinking, Algorithms and Programming

Weighting: 50%

Externally Assessed

Exam - 1 hour 30 minutes

- Algorithms
- Programming techniques
- Producing robust programs

- Computational logic
- Translators and facilities of languages
- Data representation



OPTIONS TALK

Where to get more information

- matthewsn@hilbre.wirral.sch.uk

- OCR Exam board website:

<https://www.ocr.org.uk/qualifications/gcse/computer-science-j277-from-2020/>

