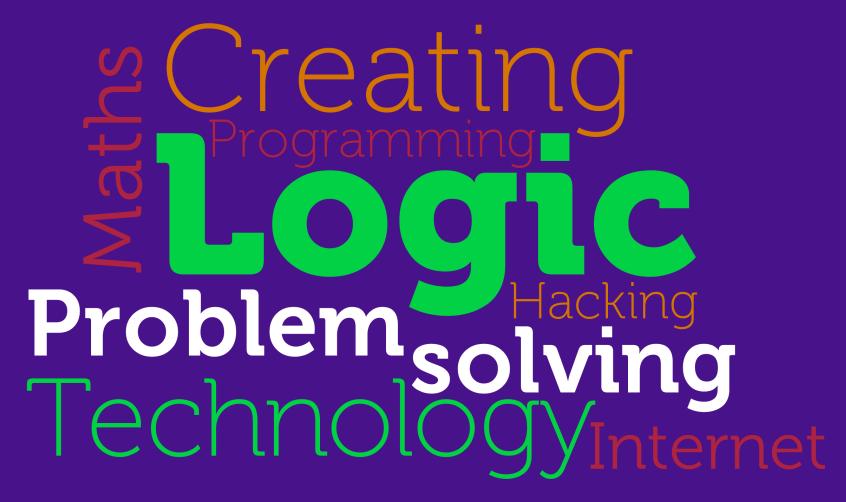
Options talks

GGSE Computer Science

Do you like...?

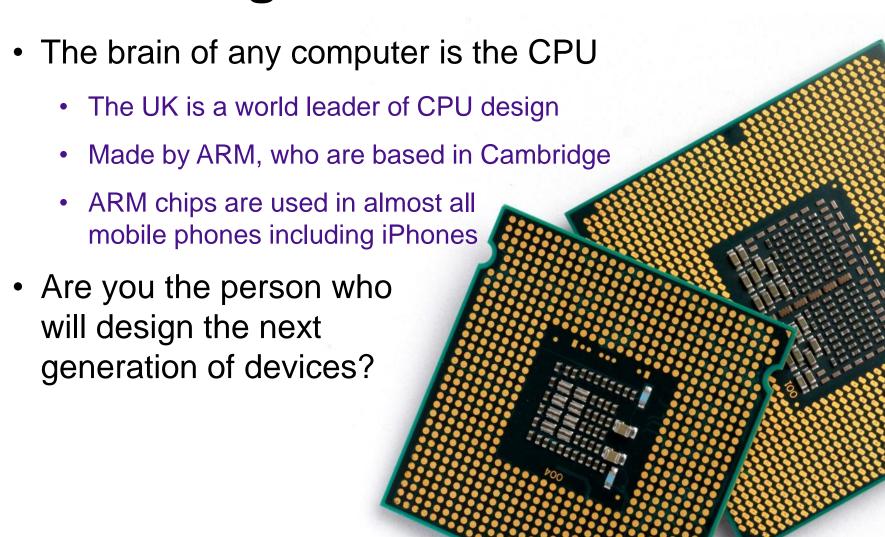


Why choose CS?

- Computers are changing every part of our lives at an ever increasing rate – why not drive the future?
- In this GCSE:
 - Experience programming and making new software
 - Find out how hackers attack computers



CPU design





- Drones are already used for film making, search & rescue and surveying
 - In the future, deliveries to your house could be made by drone
 - They will need programmers to tell them where and when to go each day
- Would you like to be a part of this future?

Robotics

- We are finding more and more uses for robots
 - Robotic vacuums in the home
 - Car assembly
 - Clearing mines in a war zone
- To make a robot you need to have a good understanding of how computers work and how to program them



The World Wide Web

- Invented by British scientist, Tim Berners-Lee in 1989
 - More than four billion people now use it
 - Over 45 billion web pages have been written
- Every British business needs people with an understanding of how computing can help them



Game-changing E-commerce

 Shopping has been transformed since the web was invented

> Online shopping was worth £1 trillion in 2014

 It is predicted to be worth £3.7 trillion by 2021

Want to know how it works?



Augmented reality

- By adding information to the world we can:
 - add reviews on shops and cafés as we see them
 - utilise a heads-up display when driving
 - or play Pokémon Go



Entrepreneurs & start-ups

It took just three people to create Snapchat

 Bobby Murphy was the programmer who coded the app

 Within four years the software was sending six billion videos per day

Most entrepreneurs can't imagine having made it without a knowledge of IT and Computer Science

Big companies in the UK

- Major international companies are present in the UK and looking for bright new talent
 - Google
 - Microsoft
 - Apple
 - Samsung
 - Facebook

A strong games industry

- The UK is well known for its games development
- The following were all made in the UK:
 - Grand Theft Auto (Edinburgh)
 - Elite Dangerous (Cambridge)
 - Candy Crush (London)
 - Batman: Arkham (London)
 - Sonic Forces (Leamington Spa)
 - Burnout Paradise (Guildford)



OCR GCSE Computer Science Course Content

- 1.1 Systems architecture
- 1.2 memory and storage
- 1.3 Computer networks, connections and protocols
- 1.4 Network security
- 1.5 Systems software
- 1.6 Ethical, legal, cultural and environmental impacts of digital technology

- 2.1 Algorithms
- 2.2 Programming fundamentals
- 2.3 producing robust programs
- 2.4 Boolean logic
- 2.5 Programming languages and IDE

Practical Programming

You will be given a programming task to complete, but the marks won't count which takes the pressure off you as you code

OCR GCSE Computer Science Assessment

J277/01: Computer systems

Written paper:

1 hour and 30 minutes

50% of total GCSE 80 marks

J277/02: Computational thinking, algorithms and Programming

Written paper:

1 hour and 30 minutes

50% of total GCSE 80 marks



Big careers in...

Systems engineer Design RODOTICS
Future careers electronics
Cyber-Security DataEntrepreneur T<mark>Programming</mark> Consultant analysis

Are you in?

Speak to any of your Computing Teachers:

Mrs Bemowski
Mr Bemowski
Mr Darbyshire
Mr Choi

Email:db@phs.cheshire.sch.uk