AQA Computer Science GCSE
3.8 Ethical, Legal and Environmental Impacts of Digital Technology on Society

Flashcards

What are cultural issues in computer science?

What are cultural issues in computer science?

How different societies view technology based on their values, traditions or beliefs.

Which laws protect personal data in the UK?

Which laws protect personal data in the UK?

The Data Protection Act 2018 and the UK GDPR.

Name two rights individuals have under data protection laws in the UK.

Name two rights individuals have under data protection laws in the UK.

The right to have their personal data erased, the right to be fully informed about how their personal data is being used.

What is the purpose of the Computer Misuse Act 1990?

What is the purpose of the Computer Misuse Act 1990?

To prevent unauthorised access to or modification of data.

Give one negative environmental impact of technology.

Give one negative environmental impact of technology.

The production of hardware consumes the Earth's limited natural resources.

Give one way technology can help the environment.

Give one way technology can help the environment.

Reduces paper use by enabling electronic communications.

Why do most citizens value data privacy?

Why do most citizens value data privacy?

They may not want governments or organisations to access their private information.

What argument do governments make for accessing private data?

What argument do governments make for accessing private data?

They claim it helps protect citizens from terrorism and other threats.

What makes cyber criminals difficult to identify?

What makes cyber criminals difficult to identify?

They operate online and use methods to stay anonymous.

What challenge does lawmaking face in relation to technology?

What challenge does lawmaking face in relation to technology?

Laws can take time to pass, making it hard to keep up with fast technological change.

What are mobile technologies?

What are mobile technologies?

Devices like smartphones and tablets that allow communication and internet access on the move.

Name a privacy issue linked to mobile apps.

Name a privacy issue linked to mobile apps.

Apps may track users' locations without their consent.

What are possible mental health concerns with mobile technologies?

What are possible mental health concerns with mobile technologies?

Too many notifications, excessive screen time and constant connectivity may negatively affect mental wellbeing.

What is a security concern with public Wi-Fi?

What is a security concern with public Wi-Fi?

Public Wi-Fi networks may be insecure and easy targets for hackers.

What happens if a cloud service is hacked?

What happens if a cloud service is hacked?

User data may be exposed, stolen, or lost.

Why is the location of cloud servers important?

Why is the location of cloud servers important?

Data protection laws vary between countries.

What if a cloud provider suddenly shuts down?

What if a cloud provider suddenly shuts down?

Users could permanently lose access to their data.

What is hacking?

What is hacking?

Gaining unauthorised access to a computer system.

What could stolen data be used for?

What could stolen data be used for?

Identity theft, blackmail, or fraud.

What are wearable technologies?

What are wearable technologies?

Devices like smart glasses and fitness trackers worn on the body.

What personal data might wearable devices track?

What personal data might wearable devices track?

Health data, location, activity levels, and more.

How could wearable cameras invade privacy?

How could wearable cameras invade privacy?

By recording others without their consent or knowledge.

What are computer-based implants?

What are computer-based implants?

Devices placed inside the body, often to support medical functions, like pacemakers.

Who is responsible if a medical implant causes harm?

Who is responsible if a medical implant causes harm?

Responsibility could lie with developers or doctors.

What are autonomous vehicles?

What are autonomous vehicles?

Self-driving cars that use AI and sensors to operate without human input.

What moral dilemmas can autonomous vehicles face?

What moral dilemmas can autonomous vehicles face?

Choosing between harming different numbers of people in unavoidable crashes.