Environmental impacts of digital technology on wider society		
Techno trash/E-waste	 Waste takes longer to disassemble and break up and could involve using additional technologies Batteries/fuel etc. leak impacting water and ground use 	
Global assembly lines	Developing technologies in 1 country and then transporting it to another E.G Car manufacturing in Germany and battery manufacturing in Japan	
Increased mining for rare earth elements	Damage to local ecosystems Increased emissions in extraction Inefficient extraction methods	
Energy consumption	 Increased energy produced when they are being used/made possibly because of complex designs/materials Increased energy consumption for a range of different technologies needed different power requirements 	

Card: 10.2

Legislation and its impact on security, privacy, data protection and freedom of information

Computer misuse act

Data protection act

Controls how your personal information is used by organisations, businesses or the government. This includes-

Collecting of personal information Processing (using) of personal information Protecting the rights of the subject Holding organisation to account if they breach the rules Designed to protect computer users against wilful attacks and theft of information. The Act makes it an offence to access any computer to which you do not have an authorised right to use. The offences include-1- Unauthorised access to computer material 2- Unauthorised modification of computer material

3- Unauthorised access with intent to cause or facilitate further offences

Common offences charged under the act include hacking, harvesting data and unauthorised encryption of data which usually occurs during extortion campaigns such as ransomware.

Logislation and its impact on convits, misson, data protostion and freedom of information		
Legislation and its impact on security, privacy, data protection and freedom of information		
Copyright act	It gives the creators of literary, dramatic, musical and artistic works the right to control the ways in which their material may be used. The rights cover: Broadcast and public performance, copying, adapting, issuing, renting and lending copies to the public. In many cases, the creator will also have the right to be identified as the author and to object to distortions of his work.	
Freedom of information act	 Provides public access to information held by public authorities. It does this in two ways: public authorities are obliged to publish certain information about their activities; and members of the public are entitled to request information from public authorities 	

Professional standards

Why should we conform to professional standards?

Everyone is treated the same Everyone knows how to act/behave Everyone knows where to get support or report issues Everyone knows how something has been made/generated /reviewed/tested etc. Everyone knows the consequences/sanctions

Formal standards-

An acceptable use policy or internet access policy. Any policy that is formally written and signed up to is considered a formal code.

Informal standards-

Expectations, customs, habits, personal integrity.

Ethical impacts of digital technology			
Digital divide			
 Those that have access to the latest technology and the internet and those do no Causes of it include- Money - people need money to access the internet and buy the latest devices, such computers, smartphones and tablets. Location - access to network coverage and high-speed broadband can vary greatly depending on where you live. Most large towns and cities have good network coverage and access, but rural areas can have limited or no coverage. Without these connect the internet can be slow or non-existent. IT literacy - knowing how to use technology empowers people to make the most of People who don't know how to use computers and the internet do not have the opportunities that IT-literate people do. Internet access - the internet provides many opportunities for people who want to access online shopping, banking and job adverts. Students with internet access at he can research or revise with online help. Many universities and schools offer courses online. Social networking helps people make connections and stay in touch. 	as age ions, it.		

https://www.bbc.com/bitesize/guides/zkhykqt/revision/5



https://www.bbc.com/bitesize/guides/zkhykqt/revision/5