Wireless and Wired Networks

	Wired network	Wireless network
Advantages	 Connection speeds are typically faster Typically have higher bandwidth Typically have better security/fewer security risks 	 Typically lower setup costs No wires/cables are required It is easy to connect new devices Users not confined to a single location // Users can connect to the network as long as they are within range Can connect multiple devices without the need for extra hardware
Disadvantages	 Cables can be hazardous and unsightly Not all devices can connect via cable eg some tablets Can be expensive to set up 	 Connection speeds can be slower Connection speeds can reduce the further from the WAP you are Subject to interference from walls, objects and other nearby electronic devices Typically less secure Connections are not as stable as wired networks
Security issues	Typically more secure than wireless as need physical access to the network to intercept data	 Risk of theft of bandwidth by neighbouring users within range Risk of data loss/data being stolen unless encryption is used Typically easier to intercept data/'hack' network // Wireless transmissions can be intercepted by anyone within range of the router

EEL points for anyone allowing wireless access:

- Websites need to restrict access to inappropriate websites
- Time limit amount of time, they may not want to provide indefinite access or may want to charge for access after the time limit has expired.
- Preventing file sharing and illegal sharing\use of copyrighted materials.
- Accountability identification of users and actions on a network by preventing anonymous access.
- Prevention of illegal activities such as terrorism and fraud.
- The responsibility to keep children safe and protected.
- Responsibility to keep users (customers) data safe and secure. Risk that data may be recorded and used for marketing etc...
- Spoofing of websites, phishing. Responsibility of organisation to put some kind of protection in place, eg filtering of known fraudulent sites. Risk of malware or other risk to hardware
- Recording of private messages or details if not encrypted.
- Recording of usernames and passwords that the user may also use to access other systems.
- Responsibility of organisation to secure their systems from possible attack.