

6.2 Digital Media and new technology

Bluetooth wireless personal area networks

Bluetooth is an open wireless system that uses radio waves to exchange data over short distances between mobile and fixed devices. This data exchange takes place over a personal area network (PAN)



Advantages of Bluetooth	Disadvantages of Bluetooth
Low power consumption so can run for a long time on a small battery Devices do not need to be in line of sight to work because they use radio waves Higher powered devices can work up to a range of 100 metres, so systems can be installed in places such as railway stations and shopping malls, providing customers with network coverage.	Games controllers rely on battery power and can run out mid game Services can be interrupted by power failure which can result in data being lost in transfer Security can also be a concern for Bluetooth devices. There are two main security problems for Bluetooth Bluejacking and Bluebugging.

Videoconferencing

A videoconference is a communication system that allows two or more people in different locations to have an interactive video and audio conversation.

Advantages of videoconferencing	Disadvantages of videoconferencing
Saves time (no travelling needed) Saves money (no travelling expenses) Better for the environment as no need to travel More efficient because many people from different locations can be involved Allows employees to work from home which cuts down travelling	Can be quite expensive to set up all the necessary technological equipment and resources Internet speed can vary and may be lost making it difficult to retain any sense of flow Some users do not feel comfortable to a camera and microphone