

The impact of the use of digital devices on the way organisations operate								
Health and safety risks associated with digital devices and how to reduce or contain them; responsible use of digital devices.								
Connectivity								
Factors influencing the choice of digital communication in a network								
Equipment needed to create a home network; benefits								
Drawbacks of wired versus wireless connections								
How different technologies can be used together, e.g. transferring a picture from a phone via Bluetooth, then uploading to web via Wi-Fi and ADSL								
Factors affecting speed and volume of data transfer								
The significance of bandwidth and latency, and their impact on the 'user experience'								
Commonly used communication networks (Ethernet, wireless Ethernet, GSM)								
Commonly used communication protocols (VoIP, POP, IMAP, SMTP, HTTP/S)								
Security risks to data and how to reduce or contain them (firewalls, encryption, authentication, digital certificates, physical access controls).								
Operating Online								
The widespread use of the internet								
The use of usernames, passwords and other security measures (challenge responses, security questions) when accessing online systems								
Control of access to and management of personal spaces; opportunities for individuals to personalise own spaces; responsible use								

Threats to and methods of preventing misuse of personal information								
The impact of relevant legislation.								
Online Goods and Services								
Advantages and disadvantages of shopping online rather than in the high street								
The impact on lifestyles and behaviour of the availability of goods and services online								
How and why organisations operate online; impact of the internet on the ways that organisations do business								
The value of transactional data (what is collected, how it is collected, e.g. cookies, transaction tracking, and what it is used for)								
Targeted marketing and personalisation techniques								
Payment systems(Credit/debit card/third party/NFC)								
Consumer protection (Consumer Rights)								
The advantages and disadvantages of hosted applications software versus locally installed software								
How commercial software producers can respond to the challenge of software as a service								
The advantages and disadvantages of online data storage versus local storage								
The advantages and disadvantages of free/open source versus proprietary software								
Effective use of search engines, validity of results, searching techniques.								
Online Communities								
The features, functions and target audience of different forms of online communities								
Ways in which ICT is changing the way knowledge is created								

The impact of the internet on employment and working practices; collaborative working								
The impact of the internet on ways of socialising								
Responsible use and acceptable behaviour								
Ways in which ICT is used to communicate and collaborate on a global scale.								
ICT Issues								
Security issues that arise when information is transmitted and stored digitally								
Privacy issues associated with the use of ICT								
Ways in which ICT can be used to monitor individuals' movements and communications								
Health and safety issues that arise from individuals' use of ICT								
The impact on society of the widespread use of networks and the ability of individuals to access networks anywhere								
Legislation relating to the use of ICT, including copyright and data protection								
The causes and implications of unequal access to ICT (locally, globally)								
Safe and responsible practice when using ICT								
Sustainability issues and ways of minimising/mitigating the environmental impact of ICT.								

Review of previous examinations: