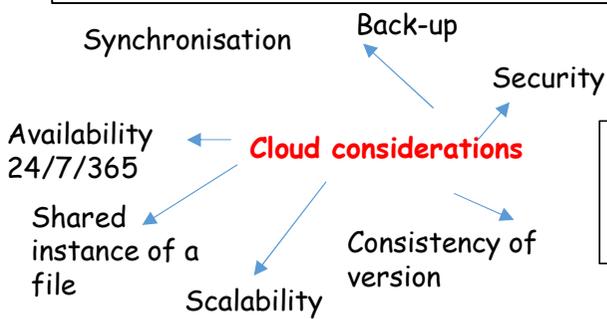


Keywords: Internet (hardware), World Wide Web (software), cloud, platform and services, synchronisation, scalability, consistency, compatibility, SAAS, PAAS, IAAS

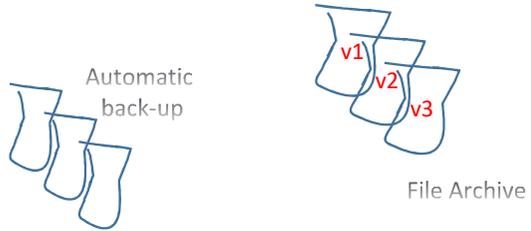
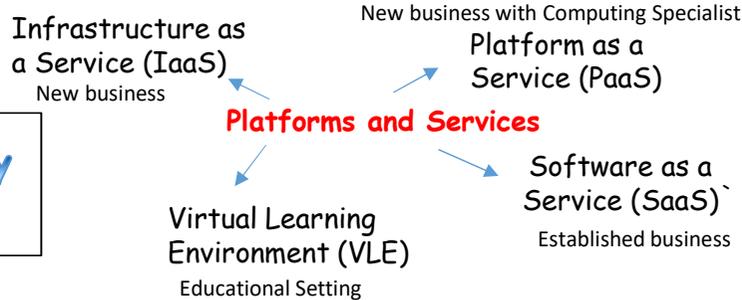
What is this topic about?
 In this topic you look at how modern technology is central to communication today. Communication is the different ways people interact with each other, and the technologies is the method in which this is done. In this unit, you learning that the cloud is the internet. Cloud computing uses the internet to connect individuals via the internet, which also includes cloud storage of the files created, used and shared.

The Digital World (Business & Society)
 When choosing cloud services, it is important for the organisation to choose platforms/services that suit the needs and requirements of activities undertaken. Considerations such as cost, compatibility, security and disaster recovery policy will help an organisation chose the platform and/or service most appropriate to their needs.

Career Link (You - The Individual)
 Over the past 12 months, you have been using Cloud Storage in your Computing/IT lessons. Using Google Classroom regularly for home learning and assessment; using Google Slides for collaborative projects. In this unit, you will create a Google Site, that you will 'share' with the teacher for assessment purposes. Your knowledge of cloud computing will be invaluable to you in the future, and is a requirement of many employers today when you apply for a job.

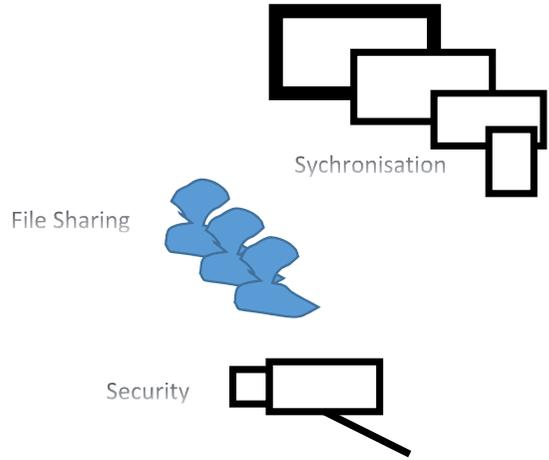


BTEC TA Digital Information Technology Modern Technology



Additional information (Knowledge Link to Practical)
Shared instance of a file and consistency of version are easier to remember if you apply them in the context of working with Google Slides. A whole class could be working on the same Google Slide presentation, where automatic updates occur on one central file, rather than each student having a copy. Google automatically updates the version of the software, so all students have the same features to include in their presentation that they are using on Google Slides.

See Golden Nuggets for further reference → **BTEC Tech Award in Digital Information Technology**
 Component 3 Effective Digital Working Practices
 Externally assessed exam
 Modern Technology



Keywords: Multicultural, inclusivity, accessibility, collaboration, communication, platforms, channels, stakeholders

What is this topic about?

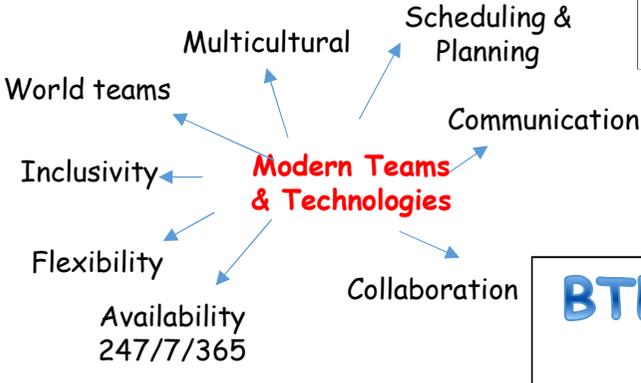
In the past, teams needed to be in the same room, working together to make decisions, where distance travelled involved time and money and a lot of organisation. This unit looks at how technology, using the internet, brings organisations, society and individuals together.

The Digital World (Business)

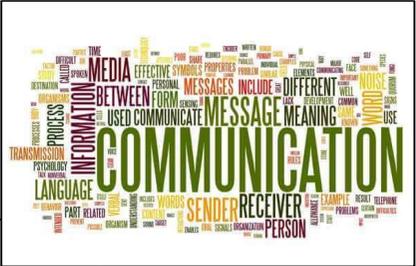
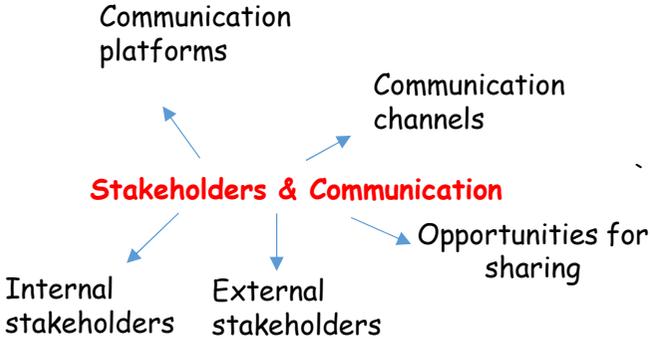
In the technological world of today, businesses have moved away from small isolated teams to team working across the world together. The use of video conferencing, e.g. Skype, has enabled important meetings to be held in many different locations at the same time. Decisions can be made quicker, problems can be identified and solved sooner. Networks are linked together via the internet, enabling much more collaborative working.

Career Link (You - The Individual)

In this unit, you will create a Google Site which you will share with your teacher - this becomes a collaborative piece of work as more than one person can work on it. You will learn about the key stakeholders in a business, which will be important in the future when you start your first job, in understanding who is who and why they are important.



**BTEC TA Digital Information Technology
Impact of Modern Technologies**



The Digital World (Society)

User Interfaces need to be both inclusive and accessible to all. Interface design can be adapted using features such as the layout, font and colour selection to make it more inclusive to all users. Accessibility features include examples such as screen reader support, Alt text, adjustable typeface/font and a text speech/listen to the page option



See Golden Nuggets for further reference

BTEC Tech Award in Digital Information Technology
Component 3 Effective Digital Working Practices
Externally assessed exam
Impact on Organisations

Keywords: Cyber security, threats, vulnerabilities, protection

What is this topic about?

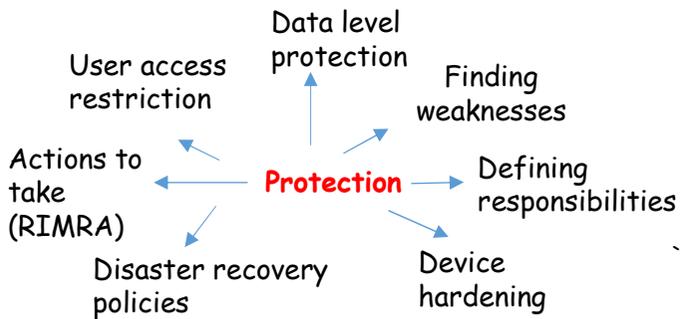
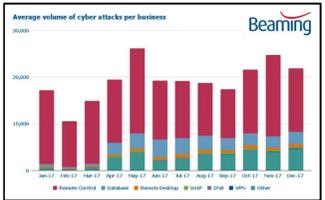
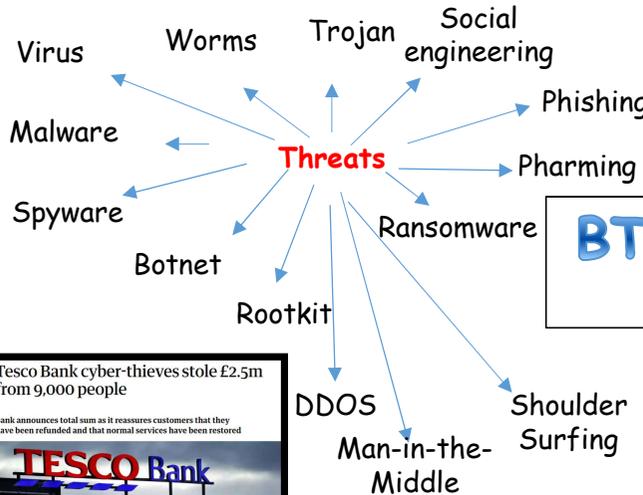
Technology is ever-present in today's society and it is used to store a lot of confidential information that, in the wrong hands, could be used for blackmail, political advantage, public shaming and making money, to name but a few. This topic focuses on the steps that can be taken to prevent cyber attacks on both businesses and the individual.

The Digital World (Business)

In the UK during 2017, the firewalls of businesses were breached on average 1000 times a day, with hackers attempting to gain access to the network in order to obtain data and/or control of the network.

Career Link (You - The Individual)

Cyber security is essential nowadays, and when at work, your employer is responsible for its maintenance. In the home, however, it is important to ensure that your computer has anti-virus protection on to prevent unwanted attacks. Additional security steps such as keeping passwords secure and logging of at the end of a session will help protect your identity.



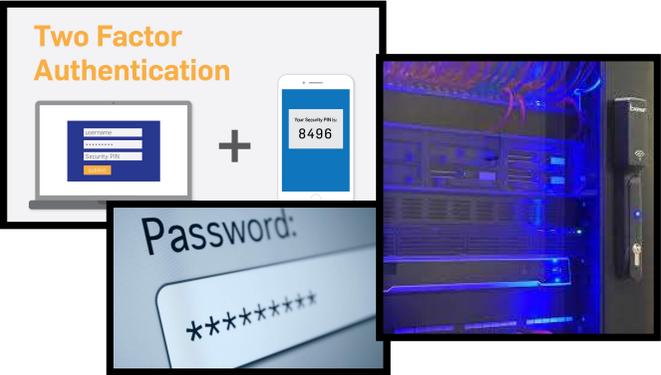
BTEC TA Digital Information Technology Cyber Security



The Digital World (Society)

There are many threats to computer networks nowadays where malware attempts to deliberately disrupt computer networks.

There are many ways computer networks can be protected from cyber threats, and should they occur, plans must be in place for recovery.



See Golden Nuggets for further reference

BTEC Tech Award in Digital Information Technology
Component 3 Effective Digital Working Practices
Externally assessed exam
Cyber Security

Keywords: Responsible use, shared data, environmental impact, legal, ethical, social boundaries, data protection, intellectual property, criminal use

What is this topic about?

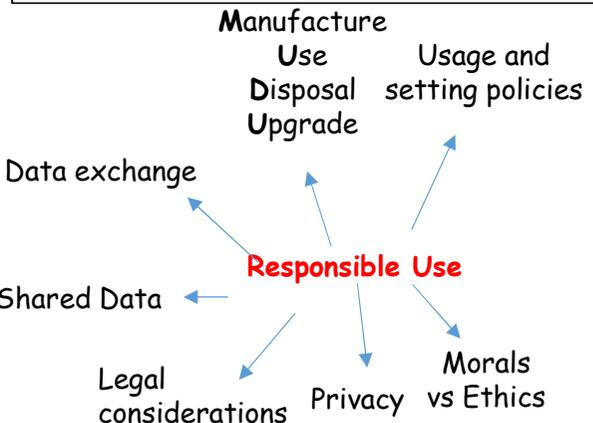
This topic is about the ethical and legal use of IT systems. The focus starts with responsible use and then turns to focus on the legal and ethical considerations when sharing data. Shared data is the disclosure of data from one or more organisations to a third party or organisation, or the sharing of data between different part of the organisation.

The Digital World (Business & Society)

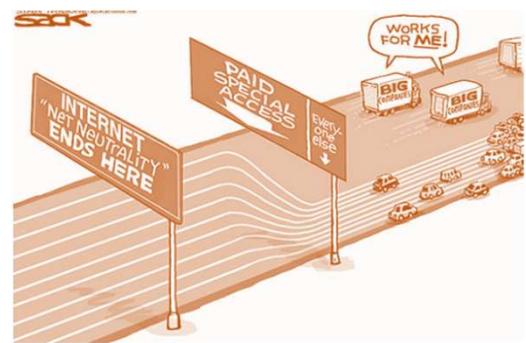
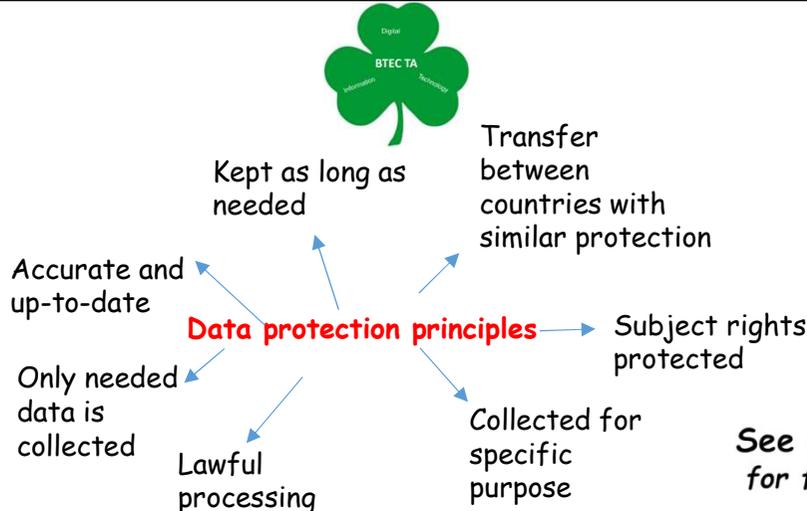
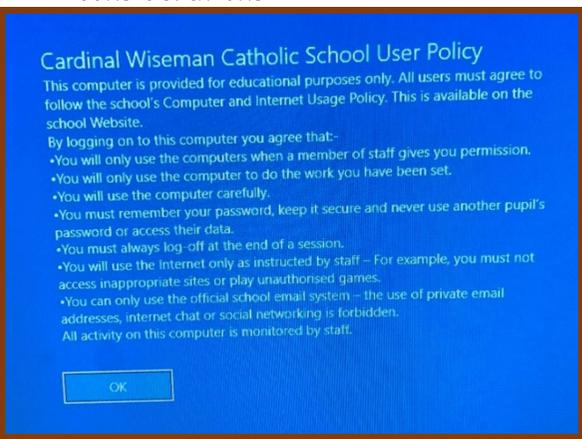
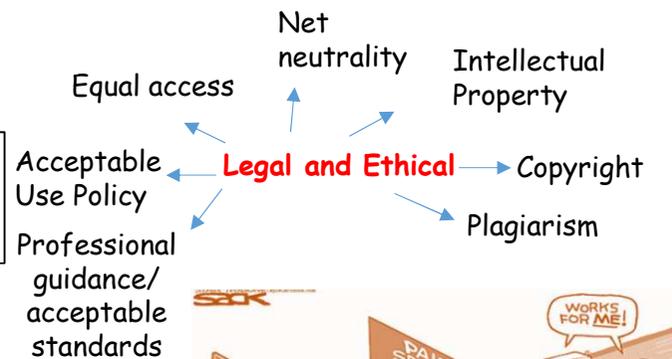
Organisations must work within a legal framework that covers their use of digital technologies, data and information. Organisations need to protect their own intellectual property (IP), including brand names, logos and product designs, to prevent other organisations from using them. Criminals represent a very real threat to computer systems used by an individual or organisation, and in general.

Career Link (You - The Individual)

Modern technology is part of our daily lives, however we must remember the environmental impact this can have when making choices to use and replace equipment. The Data Protection Act exists to protect your information and the way information about you is used. The GDPR 2018 was introduced to manage the way that data is captured, processed, stored and protected. The growth of the Internet has challenged the idea of personal privacy and users often have a much larger digital footprint than they imagine.



BTEC TA Digital Information Technology ELCE (Wider Use)



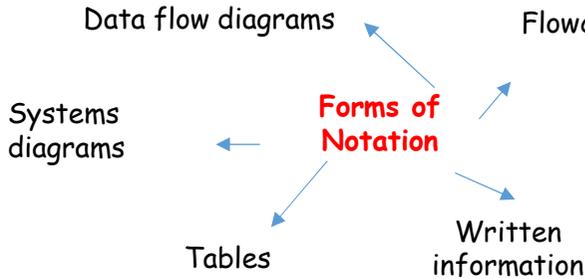
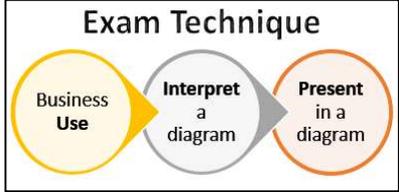
See Golden Nuggets for further reference → BTEC Tech Award in Digital Information Technology Component 3 Effective Digital Working Practices Externally assessed exam ELCE (Wider Use)

Keywords: Forms of notation, data flow diagram, information flow diagram, flowchart, systems diagram, tables, written information

What is this topic about?
 In this topic you will develop knowledge of how organisations use diagrams to provide an overview of processes. The key diagrams that you will know are the flowchart, the data flow diagram, the information flow diagram and the systems diagram.

The Digital World (Business & Society)
 In this topic, you will develop knowledge of how organisations **use** different forms of notation to explain systems, data and information. Furthermore, you will know how to **interpret** information presented using different forms of notation in a range of contexts/scenarios.

Career Link (You - The Individual)
 In this topic, you will develop the knowledge of to how **present** knowledge and understanding using different forms of notations, which you could use in coursework, further study or your future career.

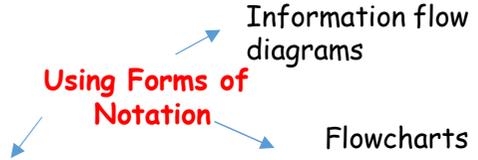


Tables

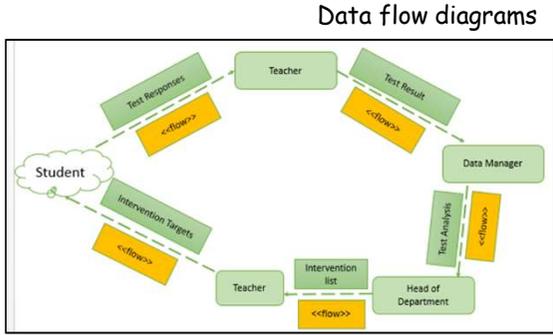
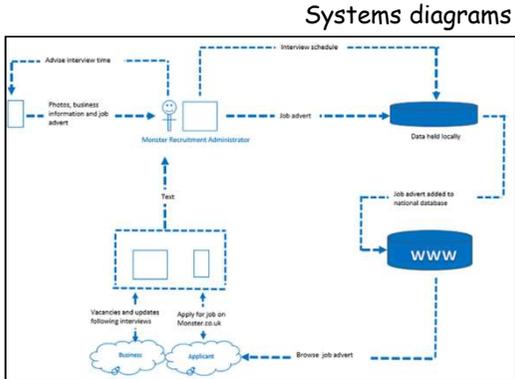
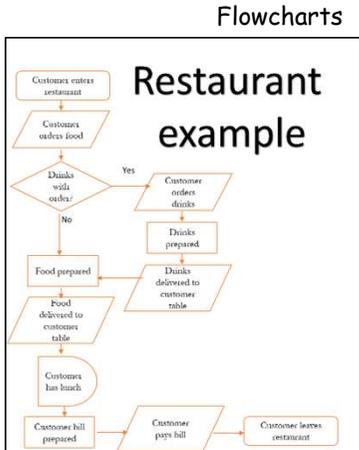
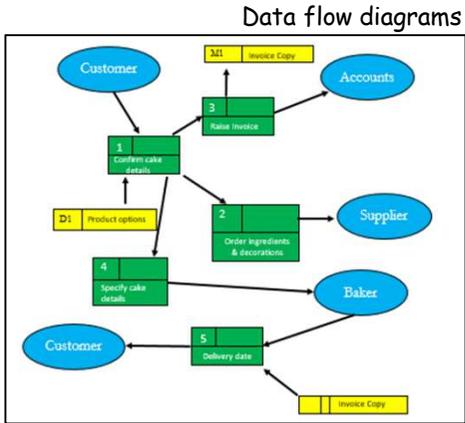
Student	Instrument	Hours Practice
George	Piano	5
Mike	Trumpet	5
Jim	Guitar	5
Louise	Violin	5
Joyce	Flute	5
Kyle	Drums	5
Lilly	Singer	2
Fred	Singer	2
Sarah	Singer	2
Alex	Singer	2



BTEC TA Digital Information Technology Planning and Communication in Digital Systems



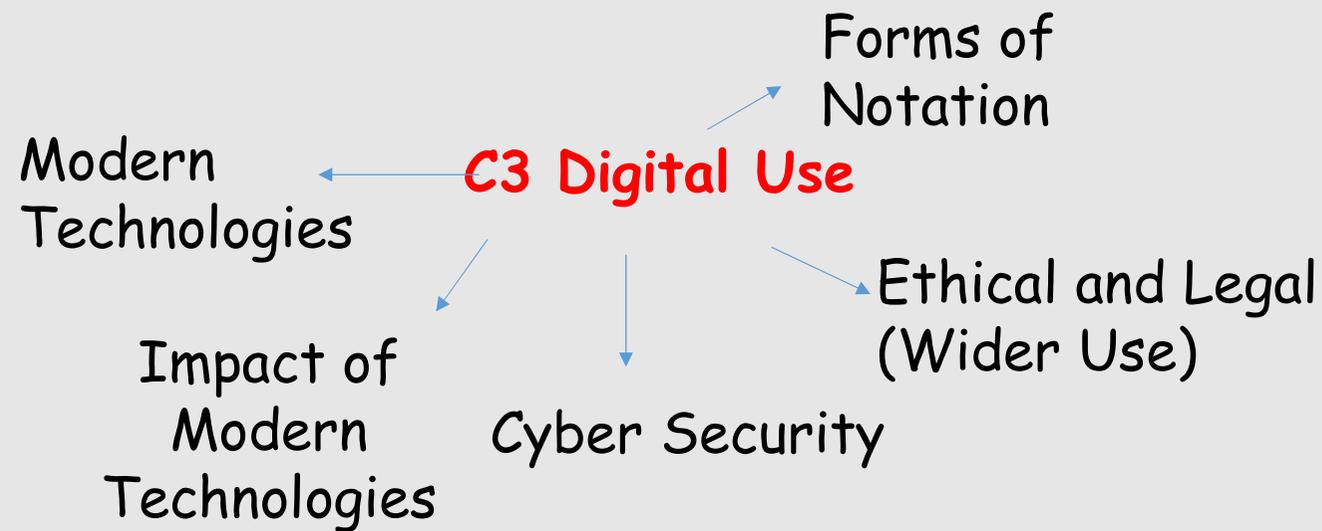
Data flow diagrams



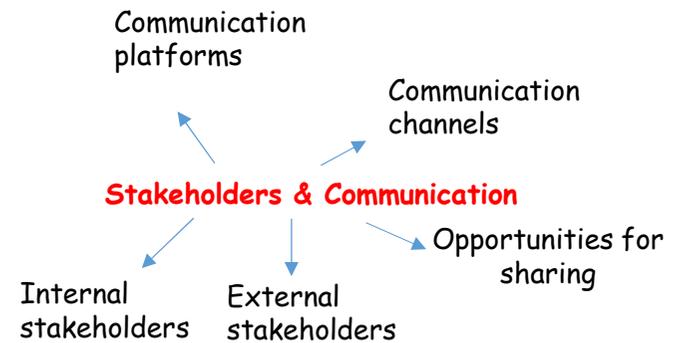
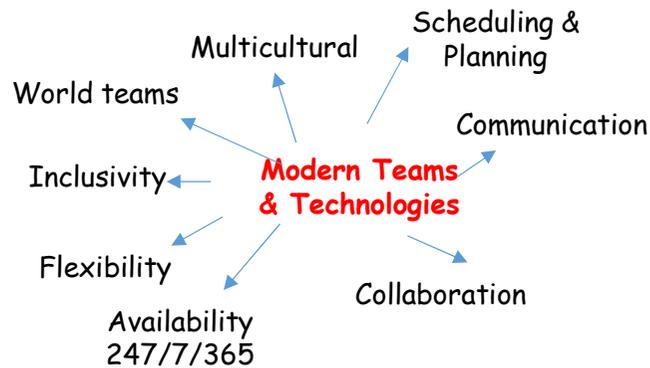
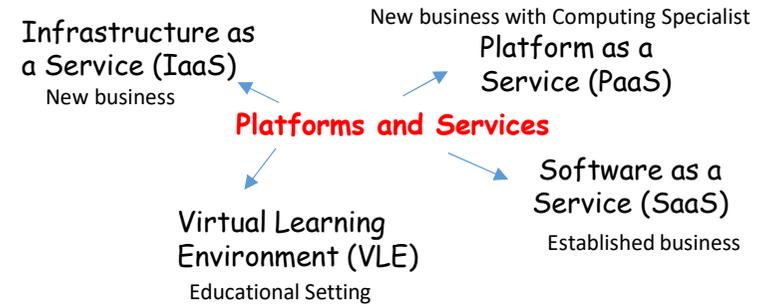
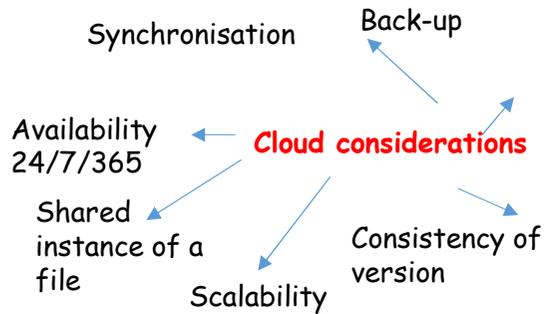
See Golden Nuggets for further reference **BTEC Tech Award in Digital Information Technology**
 Component 3 Effective Digital Working Practices
 Externally assessed exam
 Planning & Communication in Digital Systems



Component 3 Flashcards



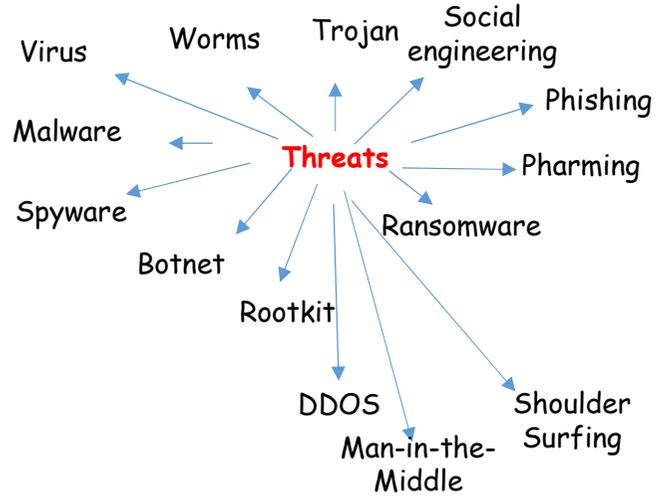
C3 Syllabus Topics





Component 3 Flashcard

5

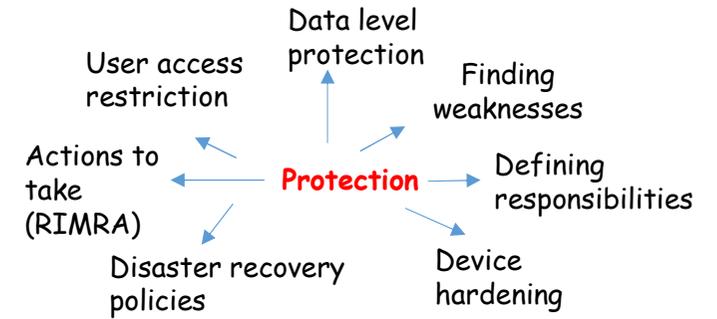


Cyber Security



Component 3 Flashcard

6

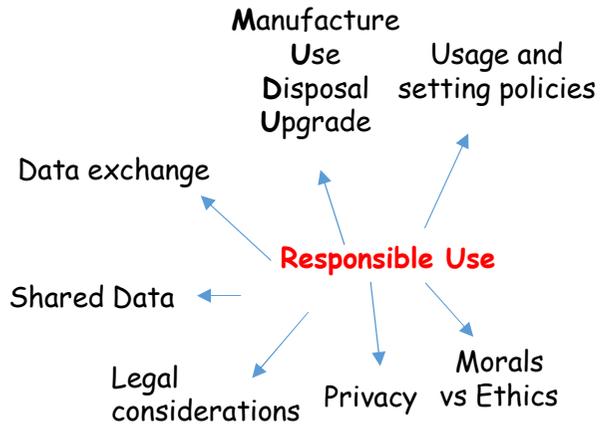


Cyber Security



Component 3 Flashcard

7

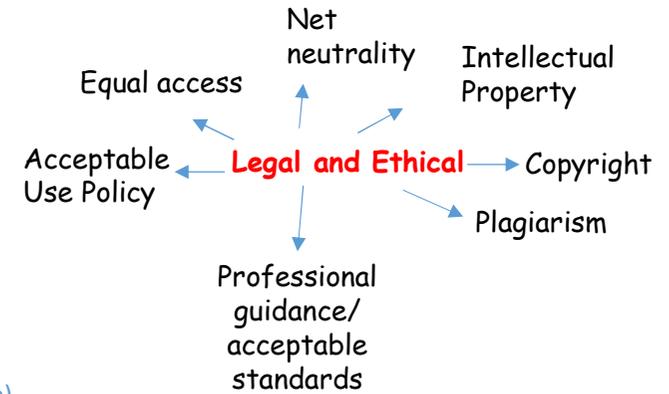


ELCE (Wider Use)



Component 3 Flashcard

8



ELCE (Wider Use)

Component 3 Flashcard 9

A central node 'Data protection principles' is connected to seven surrounding nodes: 'Kept as long as needed', 'Transfer between countries with similar protection', 'Subject rights protected', 'Collected for specific purpose', 'Lawful processing', 'Only needed data is collected', and 'Accurate and up-to-date'.

ELCE (Wider Use)

Component 3 Flashcard 10

A central node 'Forms of Notation' is connected to five surrounding nodes: 'Data flow diagrams', 'Flowcharts', 'Written information', 'Tables', and 'Systems diagrams'.

Forms of Notation

Component 3 Flashcard 11

A central node 'Using Forms of Notation' is connected to three surrounding nodes: 'Information flow diagrams', 'Flowcharts', and 'Data flow diagrams'.

Exam Technique

A process diagram showing three steps in a sequence: 'Business Use' (yellow circle), 'Interpret a diagram' (grey circle), and 'Present in a diagram' (orange circle), connected by arrows.

Forms of Notation

Component 3 Flashcard 12

A central node 'C3 Digital Use' is connected to five surrounding nodes: 'Modern Technologies', 'Forms of Notation', 'Ethical and Legal (Wider Use)', 'Cyber Security', and 'Impact of Modern Technologies'.

C3 Syllabus Topics