

**Prior learning:**  
A large amount of theory work has already been covered in component 1, covering technology and interfaces. Component 3 is an extension to the theory.

<b>Learning sequence – Component 3 – Learning Aim A:</b> Modern technologies and their impact on organisations							<b>Endpoint</b>
<b>Main learning steps</b>	Communication technology	Cloud Storage	Cloud computing	Selection of platforms and services	Using cloud and traditional systems together	Choosing cloud technologies	<p><i>Learning Aim A</i> – students understanding the technological use in the wider world and observing how it can be applied on a day to day basis and within the workplace.</p> <p>For example; the ways in which organisations and associated individuals use modern technologies to exchange information, communicate and complete work-related tasks and the impacts these have on the way organisations perform tasks</p>
	Maintenance, set up and performance considerations	Collaborative technologies	Using modern technology when managing teams: communication and collaboration	Using modern technology when managing teams: scheduling and planning	Communication with stakeholders	Accessibility and inclusivity	Understanding how technology and various tools allow collaborative working within an organisation. Due to such advances in technology, how can workplaces promote inclusivity.
	How modern technologies impact on the organisation	How technologies impact the way organisations operate	How technology impacts individuals				To understand how modern technologies impact on the way organisations perform tasks. Explore how technologies are used to manage teams, to enable stakeholders to access tools and services, and to communicate effectively.
<b>Assessment</b>	<ul style="list-style-type: none"> <li>Know_it Ninja quizzes</li> <li>Mind map –topic test (misc. questions)</li> <li>Learning Aim A – Exam questions (end of topic test)</li> </ul>						

**Where will we use these ideas again:**  
Other components – 1 & 2

**ICT FACULTY – BTEC Digital Technology**

**Year: 10**

**Topic: Component 3 – Learning Aim B**

**Learning Journey**

**Prior learning:**  
A large amount of theory work has already been covered in component 1, covering technology and interfaces. Component 3 is an extension to the theory.

<b>Learning sequence – Component 3 – Learning Aim B:</b> Threats to digital systems and how an organisation can manage them							<b>Endpoint</b>
<b>Main learning steps</b>	Why systems are attacked	External threats to digital systems and data security	Internal threats to digital systems data security	User access restriction	Data level protection: firewalls& anti-virus software	Data level protection: device hardening & encryption	<i>Learning Aim B</i> – Discovering threats to computer systems and understanding procedures and protocols required to prevent such events. Exploring examples within the real world context.
	Finding weakness & improving system security	Security policies	Defining security parameters: passwords	Defining security parameters: policies	Actions to take after an attack		<i>Learning Aim B</i> – understanding how the increased reliance of organisations on digital systems to hold data and perform vital functions presents a range of challenges and dangers. Being aware of the nature of threats to digital systems and understanding the different types of security required on a system, to ensure an organisation complies with data protection, privacy acts etc.
<b>Assessment</b>	<ul style="list-style-type: none"> <li>• Know_it Ninja quizzes</li> <li>• Mind map –topic test (misc. questions)</li> <li>• Learning Aim B – Exam questions (end of topic test)</li> </ul>						

**Where will we use these ideas again:**  
Other components – 1 & 2

**ICT FACULTY – BTEC Digital Technology**

**Year: 10**

**Topic: Component 3 – Learning Aim C**

**Learning Journey**

**Prior learning:**  
A large amount of theory work has already been covered in component 1, covering technology and interfaces. Component 3 is an extension to the theory.

<b>Learning sequence – Component 3 – Learning Aim C: Responsible, legal and ethical use of data</b>							<b>Endpoint</b>
<b>Main learning steps</b>	Sharing Data	The impact of technology on the environment	Equal access to information & services	Legal Requirements & professional guidelines	Net Neutrality	Acceptable use policies	<i>Learning Aim C</i> - understand the wider implications of digital systems and their use. Students will explore how legislation covering data protection, computer crimes and intellectual property has an impact on the way that organisations and individuals use digital systems and data.
	Data Protection Principle	Data and the use of the internet	Intellectual Property	The criminal use of computer systems			
<b>Assessment</b>	<ul style="list-style-type: none"> <li>• Know_it Ninja quizzes</li> <li>• Mind map –topic test (misc. questions)</li> <li>• Learning Aim C – Exam questions (end of topic test)</li> </ul>						
<b>Where will we use these ideas again:</b> Other components – 1 & 2							

Learning Journey

**Prior learning:**  
A large amount of theory work has already been covered in component 1, covering technology and interfaces. Component 3 is an extension to the theory.

<b>Learning sequence – Component 3 – Learning Aim D:</b> Planning & communication in digital								<b>Endpoint</b>
<b>Main learning steps</b>	Forms of notation	Interpreting data flow diagrams	Interpreting flow charts	Interpreting system diagrams	Tables & written information	Creating data flow diagrams	Creating flow charts	<p><i>Learning Aim D:</i> understand how individuals in the digital sector plan solutions and communicate meaning and intention.</p> <p>Students will understand how different forms of written and diagrammatical communication can be used to express understanding and demonstrate the flow of data and information.</p>
<b>Assessment</b>	<ul style="list-style-type: none"> <li>Know_it Ninja quizzes</li> <li>Mind map –topic test (misc. questions)</li> <li>Learning Aim D – Exam questions (end of topic test)</li> </ul>							
<p><b>Where will we use these ideas again:</b> Other components – 1 &amp; 2</p>								