



## St Mary's CE High School Curriculum Map 2023-24

### BTEC Level 1/2 Digital Information Technology Year 11

The Award gives learners the opportunity to develop sector-specific knowledge and skills in a practical learning environment.

	<b>Autumn 1a</b> <b>Comp 2: Collecting, Presenting and Interpreting Data</b>	<b>Autumn 1b</b>	<b>Spring 2a</b> <b>Comp 3: Effective Digital Working Practices</b> <b>Learning Aim A: Modern Technologies</b>	<b>Spring 2b</b> <b>Comp 3: Effective Digital Working Practices</b> <b>Learning Aim B &amp; C: Cyber Security &amp; The wider implications of digital systems</b>	<b>Summer 3a</b> <b>Comp 3: Effective Digital Working Practices</b> <b>Learning Aim C &amp; D: The wider implications of digital systems &amp; Planning &amp; Communication in Digital Systems</b>	<b>Summer 3b</b>
<b>CONTENT</b>	<p>Recap of Learning for Comp 2</p> <p>Practice assessments for Comp 2 tasks</p> <ul style="list-style-type: none"> <li>- Task 1</li> <li>- Task 2a</li> <li>- Task 2b</li> <li>- Task 2c</li> <li>- Task 3a</li> <li>- Task 3b</li> </ul>	<b>Coursework Completion</b>	<p><b>A1</b> – Modern Technologies – understand why modern technologies are technologies are used by organisations and stakeholders to access and manipulate data, and to provide access to systems and tools to complete tasks.</p> <p><b>A2</b> - Impact of modern technologies – Students need to know how modern technologies impact on the way organisations perform tasks. Students need to know how technology is used to manage teams, to enable stakeholders to access tools and services, and to communicate effectively. Students need to understand the positive and negative impacts of the use of modern technologies has on the organisations and stakeholders</p>	<p><b>B1</b> – Threats to data – students will learn why systems are attacked, the nature of attacks and how they occur, and the potential impact of breaches in security on the organisation and stakeholders</p> <p><b>B2</b> – Prevention and management of threats to data – students will learn how different measures can be implemented to protect digital systems.</p> <p><b>B3</b> – Policy – Students will learn the need for and nature of security policies in organisations</p> <p><b>C1</b> – Responsible use – students will learn the responsible use of digital systems including how systems and services share and exchange data as well as the environmental considerations of increased use</p>	<p><b>C2</b> – Legal and Ethical - Students will learn the scope and purpose of legislation (valid at time of delivery) that governs the use of digital systems and data, and how it has an impact on the ways in which organisations use and implement digital systems. The wider ethical considerations of use of technologies, data and information, and organisations' responsibilities to ensure that they behave in an ethical manner</p> <p><b>D1</b> - Forms of notation – To be able to interpret and use standard conventions to combine diagrammatical and written information to express an understanding of concepts</p>	<b>Course end</b>



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<b>SKILLS</b>	<p>Task 1 Data Collection Methods – Understanding how data is collected and used by organisations and its impact on individuals</p> <p>Task 2 A &amp; B Use Data Manipulation Methods – Understand how data is collected and used by organisations and its impact on individuals. Be able to create a dashboard using data manipulation tools</p> <p>Task 2C Create a Dashboard – Understand how data is collected and used by organisations and its impact on individuals. Be able to create a dashboard using data manipulation tools</p> <p>Task 3A Effectiveness of the Dashboard – Understanding how data is collected and used by organisations and its impact on individuals. Be able to draw conclusions and review data presentation methods</p> <p>Task 3B How presentation affects understanding – Understanding how data is collected and used by</p>		<p>How to write exam answers.</p> <p>Communication technologies</p> <p>Features and uses of Cloud storage</p> <p>Features and uses of Cloud computing</p> <p>How the selection of platforms and services impacts on the use of cloud technologies</p> <p>How the cloud and 'traditional' systems are used together</p> <p>Implications for organisations when choosing cloud technologies</p> <p>Changes to modern teams facilitated by modern technologies</p> <p>How modern technologies can be used to manage modern teams</p> <p>How organisations use modern technologies to communicate with stakeholders</p> <p>How modern technologies aid inclusivity and accessibility</p> <p>Positive &amp; Negative impacts of modern technologies on organisations &amp; individuals</p>	<p>How to write exam answers.</p> <p>Why systems are attacked</p> <p>External threats to digital systems and data security</p> <p>Internal threats to digital systems and data security</p> <p>Impact of a security breach</p> <p>User access restriction</p> <p>Data level protection</p> <p>Finding weaknesses and improving system security</p> <p>Defining responsibilities</p> <p>Defining security parameters</p> <p>Disaster recovery policy</p> <p>Actions to take after an attack</p> <p>Shared data</p> <p>Environmental impacts</p>	<p>Importance of providing equal access to services and information</p> <p>Net neutrality and how it impacts on organisations</p> <p>The purpose and use of acceptable use policies</p> <p>Blurring of social and business boundaries</p> <p>Data protection principles</p> <p>Data and the use of the internet</p> <p>Dealing with intellectual property</p> <p>The criminal use of computer systems</p> <p>Understand how organisations use different forms of notation to explain systems, data and information</p> <p>Be able to interpret information presented using different forms of notation in a range of contexts</p> <p>Be able to present knowledge and understanding using different forms of notations</p>	
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	organisations and its impact on individuals. Be able to draw conclusions and review data presentation methods.					
KEY QUESTIONS			<p>How are communication technologies used with organisations?</p> <p>What are the key features of cloud storage?</p> <p>What are the key features of cloud computing?</p> <p>What is the difference between cloud storage and cloud computing?</p> <p>How can we use traditional and cloud systems together?</p> <p>How have the changes in technology impacted modern teams?</p> <p>What are the positive and negative impacts of modern technologies?</p>	<p>What are the main reasons that systems are attacked?</p> <p>What are the different external threats to a digital system?</p> <p>What are the different internal threats to a digital system?</p> <p>What are the different impacts of a security breach?</p> <p>How can we restrict user access?</p> <p>How can we protect data at data level?</p> <p>How can we find weaknesses and then improve a system?</p> <p>How do we define responsibility?</p> <p>How do we define security parameters?</p> <p>What is a disaster recovery policy?</p> <p>What actions do organisations take after an attack?</p> <p>How can data be shared?</p> <p>What are the impacts to the environment from increased use of digital systems?</p>	<p>What is the importance of providing equal access to services and information?</p> <p>What is net neutrality and how does it impact organisations?</p> <p>What is the purpose and use of acceptable use policies?</p> <p>How can people blur social and business boundaries?</p> <p>What are the data protection principles?</p> <p>How do people deal with intellectual property?</p> <p>What are the criminal uses of computer systems?</p> <p>What are the different forms of notation that could be used by an organisation?</p>	



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<b>ASSESSMENT</b>	Practice Assessments of all tasks for comp 2		End of module assessment based on Modern technologies	End of module assessment based on Cyber Security & Responsible use as well as previous modules.	End of module assessment based on Legal & Ethical and Forms of Notation as well as previous modules.  Students will also sit their exam in this term	
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