

	Term 1A	Term 1B	Term 2A	Term 2B	Term 3A	Term 3B
Year 7	<p>Vector drawing In this unit learners will find out that vector images are made up of shapes. They will learn how to use the different drawing tools and how images are created in layers.</p> <p>Green sticker: To evaluate my vector drawing, suggest and implement improvements. End of topic assessment.</p>	<p>Spreadsheets This unit introduces the learners to spreadsheets. They will be supported in organising data into columns and rows to create their own data set.</p> <p>Green sticker: To choose suitable ways to present data and evaluate results. End of topic assessment.</p>	<p>Computing Systems and Networks In this unit, the class will learn about the World Wide Web as a communication tool.</p> <p>Green sticker: To evaluate different methods of online communication End of topic assessment.</p>	<p>Programming Variables in Games This unit explores the concept of variables in programming through games in Scratch.</p> <p>Green sticker: Use the skills learnt to design and evaluate your project End of topic assessment.</p>	<p>Programming Sensing This unit and brings together elements of all the four programming constructs: sequence, repetition, selection and variables.</p> <p>Green sticker: To develop a program to use inputs and outputs on a controllable device. End of topic assessment.</p>	<p>Using Media: Internet Safety Learners develop their understanding of information technology and digital literacy skills. They will use the skills learnt across the unit to create a blog post about a real-world cause that they would like to gain support for.</p> <p>Green sticker: Construct a blog using appropriate software and make improvements based on feedback. End of topic assessment.</p>
Year 8 Rotation	<p>Media Vector Graphics 6 weeks Blue Sticker: Create your vector graphic: Logo, illustration or icon. Green sticker: Peer assessment and whole class feedback of final vector graphic.</p> <p>Website Development 6 weeks Blue Sticker: Development of website for a theme park. Green Sticker: Peer assessment and whole class feedback of final website design.</p>					
Year 9	<p>Introduction to Python Programming This unit introduces learners to text-based programming with Python.</p> <p>Green Sticker: End of topic assessment questions on key concepts.</p>	<p>Python programming This unit introduces learners to how data can be represented and processed in sequences, such as lists and strings.</p> <p>Green Sticker: End of topic assessment questions on key concepts.</p>	<p>Cyber Security This unit takes the learners on an eye-opening journey of discovery about techniques used by cybercriminals to steal data, disrupt systems, and infiltrate networks.</p> <p>Green Sticker: Identify the most effective methods to prevent cyberattacks.</p>	<p>Media In this unit, learners will first develop pre-production skills used in the digital media industries. They will learn the importance of understanding the client's requirements, planning, developing timeframes and deadlines, and the techniques involved in these processes.ss</p> <p>Green Sticker: Evaluate design decisions for media artefacts.</p>	<p>Data Science In this unit, learners will be introduced to data science, and by the end of the unit they will be empowered by knowing how to use data to investigate problems and make changes to the world around them.</p> <p>Green sticker assessment:</p> <ul style="list-style-type: none"> - Visualise a data set - Analyse visualisations to identify patterns, trends, and outliers - Draw conclusions and report findings <p>End of topic assessment</p>	<p>Databases This unit introduces learners to the world of databases and SQL.</p> <p>Green sticker assessment: Interrogate and update an existing database End of topic assessment</p>
Year 10 User interfaces Data collection	<p>BTEC Tech Award Digital Information Technology Component 1: Exploring User Interface Design Principles and Project Planning Techniques. (Internal) A1 What is a User Interface A2 Audience needs A3 Design principles A4 Designing an efficient user interface</p> <p>Learning Aim A Assignment: Investigate user interface design for individuals and organisations.</p>		<p>BTEC Tech Award Digital Information Technology Component 1: Exploring User Interface Design Principles and Project Planning Techniques. (Internal) B1 Project planning techniques B2 Create a project plan B3 Create an initial design C1 Developing a user interface C2 Refining the user interface C3 Review</p> <p>Learning Aim B&C Assignment: Use project planning techniques to plan and design a user interface. Develop and review a user interface.</p>		<p>BTEC Tech Award Digital Information Technology Component 2: Collecting, Presenting and Interpreting data. (Internal) A1 Characteristics of data and information A2 Representing information A3 Ensuring data is suitable for processing A4 Data collection A5 Quality of information and its impact on decision making A6 Sectors that use data modelling A7 Threats to individuals</p> <p>Learning Aim A Assignment: Investigate the role and impact of using data on individuals and organisations.</p>	
Year 11 Effective digital working practices exam. Dashboard.	<p>BTEC Tech Award Digital Information Technology Component 3: Effective digital working practices. (External) A01, A02, A03 & A04</p> <p>A Modern Technologies</p> <ul style="list-style-type: none"> - A1 Modern Technologies - A2 Impact of modern technologies <p>B Cyber Security</p> <ul style="list-style-type: none"> - B1 Threats to data - B2 Prevention and management of threats to data - B3 Policy 		<p>BTEC Tech Award Digital Information Technology Component 2: Collecting, Presenting and Interpreting data. (Internal) B1 Data processing methods B2 Produce a dashboard C1 Drawing conclusions based on data C2 How presentation affects understanding</p> <p>Learning Aim B&C Assignment: Create a dashboard using data manipulation tools. Draw conclusions and review data presentation methods.</p>			

	<p>C The wider implications of digital systems</p> <ul style="list-style-type: none"> - C1 Responsible Use - C2 Legal and ethical <p>D Planning and communication in digital systems</p> <ul style="list-style-type: none"> - D1 Forms of notation <p>External assessment in February.</p>		
<p>Year 12 Information Technology Systems Exam Unit 3</p>	<p>BTEC National Extended Certificate in Information Technology Unit 1: Information Technology Systems. (External) A01, A02, A03, A04 & A05</p> <p>A Digital devices in IT systems</p> <ul style="list-style-type: none"> - A1 Digital devices, their functions and use - A2 Peripheral devices and media - A3 Computer software in an IT system - A4 Emerging technologies - A5 Choosing IT systems <p>B Transmitting data</p> <ul style="list-style-type: none"> - B1 Connectivity - B2 Networks - B3 Issues relating to transmission of data <p>C Operating online</p> <ul style="list-style-type: none"> - C1 Online systems - C2 Online communities <p>D Protecting data and information</p> <ul style="list-style-type: none"> - D1 Threats to data, information and systems - D2 Protecting data <p>E Impact of IT systems</p> <ul style="list-style-type: none"> - E1 Online services - E2 Impact on organisations - E3 Using and manipulating data <p>F Issues</p> <ul style="list-style-type: none"> - F1 Moral and ethical issues - F2 Legal issues <p>External assessment in January.</p>	<p>BTEC National Extended Certificate in Information Technology Unit 3: Using Social Media in Business. (Internal) A1 Social media websites A2 Business uses of social media A3 Risks and issues</p> <p>Learning Aim A Assignment: Explore the impact of social media on the ways in which businesses promote their products and services.</p>	<p>BTEC National Extended Certificate in Information Technology Unit 3: Using Social Media in Business. (Internal) B1 Social media planning processes B2 Business requirements B3 Content planning and publishing B4 Developing an online community B5 Developing a social media policy B6 Reviewing and refining plans C1 Creating accounts and profiles C2 Content creation and publication C3 Implementation of online community building C4 Data gathering and analysis C5 Skills, knowledge and behaviours</p> <p>Learning Aim B & C Assignment: Develop a plan to use social media in a business to meet requirements. Implement the use of social media in a business.</p>
<p>Year 13 Creating Systems to Manage Information Exam Unit 6</p>	<p>BTEC National Extended Certificate in Information Technology Unit 2: Creating Systems to Manage Information. (External) A01, A02, A03, A04 & A05</p> <p>A The purpose and structure of relational database management systems</p> <ul style="list-style-type: none"> - A1 Relational database management systems - A2 Manipulating data structures and data in relational databases - A3 Normalisation <p>B Standard methods and techniques to design relational database solutions</p> <ul style="list-style-type: none"> - B1 Relational database design - B2 Design documentation <p>C Creating a relation database structure</p> <ul style="list-style-type: none"> - C1 Producing a database solution - C2 Testing and refining the database solution <p>D Evaluating a database development project</p> <ul style="list-style-type: none"> - D1 Database design evaluation - D2 Evaluation of database testing - D3 Evaluation of the database <p>External assessment in January.</p>	<p>BTEC National Extended Certificate in Information Technology Unit 6: Website Development. (Internal) A1 Purpose and principles of website products A2 Factors affecting website performance</p> <p>Learning Aim A Assignment: Understand the principles of website development.</p>	<p>BTEC National Extended Certificate in Information Technology Unit 6: Website Development. (Internal) B1 Website design B2 Common tools and techniques used to produce websites C1 Client-side scripting languages C2 Website development C3 Website review C4 Website optimisation C5 Skills, knowledge and behaviours</p> <p>Learning Aim B & C Assignment: Design a website to meet client requirements. Develop a website to meet client requirements.</p>