KS4 Enrichment

BTEC TECH AWARD Level 1 and 2

DIGITAL INFORMATION TECHNOLOGY

Year 1

TERM 1 TOPIC/s	*Key Skills/Subject Links	*Career links & BV
Component 2 ▪ **Characteristics of data** ▪ **Representing information** ▪ **Validation and verification** ▪ **Data collection**	**Key Skills:** • **Understanding the characteristics and types of data.** ▪ **Interpreting and communicating data effectively.** • **Critical Thinking** ▪ **Analysing data to identify patterns, trends, and outliers.** ▪ **Evaluating the reliability and relevance of data sources.** **Subject links:** ▪ **Mathematics: Understanding statistical concepts related to data analysis.** ▪ **Science: Exploring scientific data collection methods.**	**Career Links:** ▪ **Data Analyst** ▪ **Data Scientist** ▪ **Database Administrator** **British Values:** ▪ **Democracy: Ensuring fair and equal access to information through data.** ▪ **Individual Liberty: Safeguarding individual privacy rights in data handling.** ▪ **Rule of Law: Adhering to legal frameworks governing data use.**
TERM 2 TOPIC/s	***Key Skills/Subject Links**	***Career links & BV**
Component 2 ▪ **Data modelling** ▪ **Data Threats** ▪ **Data manipulation methods**	**Key Skills:** **Data Organisation:** ▪ **Managing and organising data effectively within spreadsheet structures.** ▪ **Utilising features such as sorting, filtering, and grouping.** ▪ **Formula Application** **Data Visualisation:**	**Career Links:** ▪ **Financial Analyst** ▪ **Data Analyst** ▪ **Account** ▪ **Project management** **British values:** ▪ **Democracy: Facilitating transparent and accessible data representation.** ▪ **Individual Liberty: Empowering individuals with data analysis tools.** ▪ **Rule of Law: Adhering to legal**

	▪ Creating charts and graphs to visually represent data trends. ▪ Enhancing spreadsheet layouts for clear data presentation. Subject Links: ▪ Mathematics: Applying mathematical functions and formulas in spreadsheets. ▪ Business Studies: Applying spreadsheets for financial and business analysis.	and ethical considerations in data handling.
TERM 3 TOPIC/s	***Key Skills/Subject Links**	***Career links & BV**
▪ **Processing methods** ▪ **Producing Dashboards** ▪ **Reviewing methods**	**Key Skills:** ▪ **Managing and organising data effectively within spreadsheet structures.** ▪ **Utilising features such as sorting, filtering, and grouping.** ▪ **Formula Application** **Subject Links:** ▪ **Mathematics: Applying mathematical functions and formulas in spreadsheets.** ▪ **Business Studies: Applying spreadsheets for financial and business analysis.**	**Career Links:** ▪ **Financial Analyst** ▪ **Data Analyst** ▪ **Accountant** ▪ **Project manager** **British values:** ▪ **Democracy: Facilitating transparent and accessible data representation.** ▪ **Individual Liberty: Empowering individuals with data analysis tools.** ▪ **Rule of Law: Adhering to legal and ethical considerations in data handling.**
TERM 4 TOPIC/s	▪ ***Key Skills/Subject Links**	***Career links & BV**
▪ **Mock controlled assessment for component 2.**	**Mock controlled assessment**	**Mock controlled assessment**

TERM 5 TOPIC/s	*Key Skills/Subject Links	*Career links & BV
Component 1 • **User interfaces** • **Factors and influences of interfaces** • **Audience needs** • **Design principles**	**Key Skills:** ▪ **Applying design principles for user-friendly and visually appealing interfaces.** ▪ **Utilising graphic design tools and techniques.** ▪ **User Experience (UX) Design: Prioritising user experience through intuitive and efficient interface design.** **Subject Links:** ▪ **Art and Design: Applying design principles for aesthetic and functional interfaces.** ▪ **Psychology: Understanding the psychological aspects of user interaction.** ▪ **Business Studies: Aligning interface design choices with business goals.**	**Career links:** ▪ **UX/UI Designer** ▪ **Interaction Designer** ▪ **User Interface Developer** **British Values:** ▪ **Democracy: Ensuring inclusivity and accessibility in user interface design.** ▪ **Individual Liberty: Upholding individual freedom in navigating interfaces.** ▪ **Rule of Law: Adhering to legal and ethical considerations in interface design.**
TERM 6 TOPIC/s	*Key Skills/Subject Links	*Career links & BV
Component 1 • **Design Psychology** • **Designing Efficient User interfaces** • **Project planning techniques** • **Creating project plans**	**Key Skills:** ▪ **Applying design principles for user-friendly and visually appealing interfaces.** ▪ **Utilising graphic design tools and techniques.** ▪ **User Experience (UX) Design** ▪ **Planning and prioritising tasks for efficient project execution.** ▪ **Identifying potential risks and challenges in project planning.** **Subject Links:** ▪ **Psychology: Understanding the psychological aspects of user interaction.**	**Career links:** ▪ **UX/UI Designer** ▪ **Interaction Designer** ▪ **User Interface Developer** **British Values:** ▪ **Democracy: Ensuring inclusivity and accessibility in user interface design and collaborative project planning.** ▪ **Individual Liberty: Empowering team members to contribute to project planning.** ▪ **Rule of Law: Adhering to legal and ethical considerations in interface design.**

	▪ **Business Studies: Business Studies: Planning and prioritizing tasks for efficient project execution.**	