

St Bede's Catholic Voluntary Academy

Curriculum Overview: ICT and Computing (2022/2023)

ICT

	Advent 1	Advent 2	Lent 1	Lent 2	Pentecost 1	Pentecost 2
Year 7	<p>Introduction to the System and Digital Literacy</p> <p>Introduction to the academy network and email, develop basic software skills and standard ways of working. Introduction to MS Teams and Outlook.</p>	<p>E-Safety Self-image and Online Relationships</p> <p>Differences between online and offline identities, building positive online relationships. Introduction to interactive presentations.</p>	<p>Microsoft Office Suite - Word processing and Spreadsheets</p> <p>General typography features, page setup, inserting graphics, themes and backgrounds. Introduction to spreadsheet features, formula and functions.</p>	<p>Kodu Programming</p> <p>Introduction to the fundamentals of game programming.</p>	<p>E-safety Online Reputation</p> <p>How to manage online activity, digital footprint and online reputation</p>	<p>Scratch Programming</p> <p>Further develop, programming skills using alternative software. Exploring sprites, stages, backdrops, movement using sensors and scripts.</p>
Year 8	<p>Computer Systems</p> <p>Introduction to the inner workings of the computer system, hardware, software, networks, binary numbers, Application software and system software.</p>	<p>Spreadsheets</p> <p>Revisit prior learning, further develop skills using more complex spreadsheet software features. Using clean data, functions and formulae, charts and graphics in real-world scenarios</p>	<p>E-safety Online Bullying</p> <p>How to report negative online behaviours.</p>	<p>Scratch Game Maker</p> <p>Revisit prior learning, further develop skills using variables and broadcasts.</p>	<p>Python</p> <p>Introduction to basic Python syntax to create small programs.</p>	<p>Web awareness and Publishing</p> <p>Introduction to web publishing, what makes a good website, create a webpage for a specific audience and purpose.</p>

	Advent 1	Advent 2	Lent 1	Lent 2	Pentecost 1	Pentecost 2
Year 9	<p>Computer Systems</p> <p>Revisit prior learning, to the inner workings of the computer system, hardware, software, networks, binary numbers, Application software, system software, user interfaces, data and information.</p> <p>Software engineering Principles</p> <p>Design diagrams and Flowcharts, computational thinking, building practical projects.</p>	<p>Extended Spreadsheets Project</p> <p>Build on existing skills using a large, importing data, using functions and formulae to facilitate summarising data in tables and graphs.</p>	<p>Database Project</p> <p>Introduction to flat database design, data types, fields, records and tables. Use queries to manipulate data into reports.</p>	<p>Python programming</p> <p>Using algorithms, pseudocode, IPO planning to create interactive programs.</p>	<p>E-safety Online Bullying</p> <p>The Law and how to report negative online behaviours.</p>	<p>Web awareness and Publishing</p> <p>Revisit prior learning, further develop skills in web publishing, what makes a good website, create a webpage for a specific audience and purpose.</p>

	Advent 1	Advent 2 and Lent 1		Lent 2	Pentecost 1	Pentecost 2
Year 10	<p>Component 1: Exploring User Interface Design Principles and Project Planning Techniques</p> <p>Aim A: Investigate user interface design for individual and organisations. <i>BTEC Coursework assignment</i></p>	<p>Component 1: Exploring User Interface Design Principles and Project Planning Techniques</p> <p>Aim B: Use project planning techniques to plan and design a user interface <i>BTEC Coursework assignment</i></p> <p>Component 3: Effective Digital Working Practices</p> <p>Aim D: Forms of notation</p>		<p>Component 1: Exploring User Interface Design Principles and Project Planning Techniques</p> <p>Aim C: Develop and review a user interface <i>BTEC Coursework assignment</i></p>	<p>Component 2: Collecting, presenting and interpreting data Aim A: Investigate the role and impact of using data on individuals and organisations <i>BTEC Coursework assignment</i></p> <p>Component 3: Effective Digital Working Practices Aim B2 & B3: Prevention of data loss and policies</p>	<p>Component 2: Collecting, presenting and interpreting data</p> <p>Aim B: Create a dashboard using data manipulation tools <i>BTEC Coursework assignment</i></p>
Year 11	<p>Component 2: Collecting, presenting and interpreting data</p> <p>Aim C: Draw conclusions and review data presentation methods <i>BTEC Coursework assignment</i></p>	<p>Component 3: Effective Digital Working Practices</p> <p>Aim A: Modern Technologies <i>Exam preparation</i></p>	<p>Component 3: Effective Digital Working Practices</p> <p>Aim B: Cyber Security <i>Exam preparation</i></p>	<p>Component 3: Effective Digital Working Practices</p> <p>Aim C: Legal and Ethical <i>Exam preparation</i></p>	<i>Exam preparation</i>	