

Holy Family Catholic School Curriculum Overview Year 12 –

ICT (BTEC AAQ)



	Curriculum Content	Suggested Reading or Extension Activities
Half Term 1 (Sept-Oct)	Unit 1: Information Technology Systems Learning Aims: A: Explore the concepts and implications of the use of, and relationships among devices that form IT systems B: Transmitting data C: Operating online Topics: A1 Functions and use of digital devices, and the notation used to represent the design of IT systems A2 Peripheral devices and media A3 Computer software in an IT system A4 Choosing IT systems A5 Emerging technologies B1 Connectivity B2 Networks B3 Issues relating to transmission of data C1 Online systems C2 Online communities Unit 3: Website Development Learning aim A: Understand how the principles of website development are used to create effective websites Assignments: Explore the purposes and principles of website development	Extended reading can be done via Pearson revision guide and revision workbook. Also online revision via: https://www.knowitallninja.com
Half Term 2 (Nov-Dec)	Unit 1: Information Technology Systems Learning Aims: A: Explore the concepts and implications of the use of, and relationships among devices that form IT systems B: Transmitting data C: Operating online Topics: A1 Functions and use of digital devices, and the notation used to represent the design of IT	Create a mind map to operating online: Operating Online Mind Map (goconqr.com) Extended reading opportunity: 10 things you can do to protect your data TechRepublic

	systems A2 Peripheral devices and media A3 Computer software in an IT system A4 Choosing IT systems A5 Emerging technologies B1 Connectivity B2 Networks B3 Issues relating to transmission of data C1 Online systems C2 Online communities Unit 3: Website Development Learning aim A: Understand how the principles of website development are used to create effective websites Assignments: Explore the purposes and principles of website development	
Half Term 3 (Jan-Feb)	Unit 1: Information Technology Systems D: Protecting data and information E: Impact of using IT systems F: Issues Topics: D1 Threats to data, information, and systems D2 Protecting data E1 Online services E2 Using and manipulating data F1 Moral and ethical issues F2 Legal issues Unit 3: Learning aim B & C: Understand how the principles of website development are used to create effective websites Assignments: Use web design skills and techniques to plan a website in response to a client brief Develop a website in response to a client brief	Extended reading opportunity: Impact of Information Technology in an Organization - Use of Technology
Half Term 4 (Feb-Mar)	D: Protecting data and information E: Impact of using IT systems	Extended reading opportunity: The Importance of Social Media in

	F: Issues Topics: D1 Threats to data, information, and systems D2 Protecting data E1 Online services E2 Using and manipulating data F1 Moral and ethical issues F2 Legal issues Unit 3: Learning aim B & C: Understand how the principles of website development are used to create effective websites Assignments: Use web design skills and techniques to plan a website in response to a client brief Develop a website in response to a client brief	Business for Entrepreneurial Success (lyfemarketing.com)
Half Term 5 (Apr-May)	Revision & Exam preparation	
Half Term 6 (Jun-Jul)	Unit 2: Cyber Security and Incident Management Learning Aims: A: Cyber security threats, system vulnerabilities and security protection methods Topics: A1 Cyber security threats A2 System vulnerabilities A3 Legal responsibilities A4 Software and hardware security measures	Online revision via: https://www.knowitallninja.com

Examples of Home Learning Tasks	Learners will be expected to work on their website development coursework unit at home. Task 1, 2 & 3 can be easily accessible to work on at home.
Assessment Tasks, Methods & Frequency	End of topic assessments, extensive use of formative assessments. Mock exams
Equipment that Students Need	None needed. All provided within the department.

Parent / Carers can help their child by:	Signing up to Google Guardian and checking their Google Guardian account and reminding their child with any upcoming homework/assignment deadlines.
Useful Websites	https://www.knowitallninja.com

Extra-Curricular Activities & Career Opportunities	STEM club opportunity. Deloittes - IT & Creative Media tour trip E-Sports gaming day trip. Outside speakers arranged from ADA college to discuss apprenticeship opportunities and Digital careers.
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Who Can I Contact?	Head of Computing & IT	Mrs Belgrave
	Teachers of Year 12 ICT	Mr Heskey

Holy Family Catholic School Curriculum Overview Year 13 –

ICT (BTEC AAQ)



	Curriculum Content	Suggested Reading or Extension Activities
Half Term 1 (Sept-Oct)	Unit 2: Cyber Security and Incident Management Learning Aims: A: Cyber security threats, system vulnerabilities and security protection methods Topics: A1 Cyber security threats A2 System vulnerabilities A3 Legal responsibilities A4 Software and hardware security measures Learning Aims: B: Use of networking architectures and principles for security B1 Network types B2 Network components B3 Networking infrastructure services and resources Learning Aims: C: Cyber security documentation C1 Internal policies Learning Aims: D: Forensic procedures D1 Forensic collection of evidence D2 Systematic forensic analysis of a suspect system	Extended reading can be done via Pearson revision guide and revision workbook. Also online revision via: https://www.knowitallninja.com
Half Term 2 (Nov-Dec)	Unit 2: Cyber Security and Incident Management Learning Aims: Learning Aims: C: Cyber security documentation C1 Internal policies Learning Aims: D: Forensic procedures D1 Forensic collection of evidence	Extended reading can be done via Pearson revision guide and revision workbook. Also online revision via: https://www.knowitallninja.com

	D2 Systematic forensic analysis of a suspect system Revision & Exam preparation	
Half Term 3 (Jan-Feb)	Unit 4: Relational Database Development Learning aim A: Understand how the principles of relational database models, data storage and normalisation are used to create effective relational database solutions A1 Relational database management systems A2 Manipulating data structures and data in relational databases A3 Normalisation A4 Preliminary scoping of a relational database solution in response to a client brief Learning aim B: Design a relational database solution to meet client requirements B1 Relational database design techniques and processes B2 Design documentation B3 Reviewing and refining designs Learning aim C: Develop a relational database solution to meet client requirements C1 Producing a database solution C2 Testing the database solution C3 Reviewing the database solution C4 Optimising the database solution	Microsoft Access Revision Tutorials
Half Term 4 (Feb-Mar)	Unit 4: Relational Database Development Learning aim A: Understand how the principles of relational database models, data storage and normalisation are used to create effective relational database solutions A1 Relational database management systems A2 Manipulating data structures and data in relational databases A3 Normalisation A4 Preliminary scoping of a relational database solution in response to a client brief Learning aim B: Design a relational database solution to meet client requirements B1 Relational database design techniques and processes	Microsoft Access Revision Tutorials

	B2 Design documentation B3 Reviewing and refining designs Learning aim C: Develop a relational database solution to meet client requirements C1 Producing a database solution C2 Testing the database solution C3 Reviewing the database solution C4 Optimising the database solution	
Half Term 5 (Apr-May)	Unit 4: Relational Database Development Learning aim C: Develop a relational database solution to meet client requirements C1 Producing a database solution C2 Testing the database solution C3 Reviewing the database solution C4 Optimising the database solution Revision and Exam Preparation (Resit Exam)	Microsoft Access Revision Tutorials
Half Term 6 (Jun-Jul)	Public Exams	

Examples of Home Learning Tasks	Microsoft Access Revision Tutorials https://www.knowitalnninja.com
Assessment Tasks, Methods & Frequency	End of topic assessments, extensive use of formative assessments. Mock exams Coursework tasks that are internally marked
Equipment that Students Need	Students will need access to MS Access for unit 4.

Parent / Carers can help their child by:	Signing up to Google Guardian and checking their Google Guardian account and reminding their child with any upcoming homework/assignment deadlines.
Useful Websites	https://www.youtube.com for youtube tutorials on both MS Access
Extra-Curricular Activities & Career Opportunities	STEM club opportunity. Deloittes - IT & Creative Media tour trip E-Sports gaming day trip. Outside speakers arranged from ADA college to discuss apprenticeship opportunities and Digital careers.

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	Teachers of Year 13 ICT	Mr Heskey