

**Quality of Education:** Curriculum is planned and sequenced so that new **knowledge** and **skills** build on what has been taught before and towards its clearly defined end points.



SUBJECT: IT		CURRICULUM PROGRESSION PATHWAYS		CL: Miss Youngman	2022-2023
KS3 (Level 1) Computing	KS4 (Level 2) BTEC Tech Award in Digital Information Technology	KS5 (Level 3) BTEC Level 3 National Extended Certificate in Information Technology	Further Education and training	Careers	
→		→	→	→	
<b>Year 7 - Basic Skills</b> <b>Knowledge:</b> E-Safety, Internet Searching <b>Skills:</b> PowerPoint Presentation, Word Processing, Desktop Publishing <b>Year 7 - Web Page Creation</b> <b>Knowledge:</b> Internet Searching <b>Skills:</b> HTML Coding <b>Careers:</b> Web Designer <b>Year 7 - Programming</b> <b>Knowledge:</b> Python Programming Theory <b>Skills:</b> Python Programming <b>Careers:</b> Programmer  <b>Year 8 - Spreadsheets</b> <b>Knowledge:</b> Spreadsheet Key Terms <b>Skills:</b> Spreadsheet Creation <b>Careers:</b> Data Analyst <b>Year 8 - Databases</b> <b>Knowledge:</b> Database Key Terms <b>Skills:</b> Database Creation <b>Careers:</b> SQL Database Administrator <b>Year 8 - Algorithms</b> <b>Knowledge:</b> Algorithms <b>Skills:</b> Flowcharts, Pseudo-code <b>Careers:</b> Data Scientist <b>Year 8 - Programming</b> <b>Knowledge:</b> Python Programming Theory	<b>Year 10:</b> <b>Component 2: Collecting, Presenting and Interpreting Data</b> <b>Knowledge:</b> Role and Impact of Data, Using Data to Draw Conclusions <b>Skills:</b> Spreadsheets, Presenting Data <b>Careers:</b> Systems Analyst  <b>Component 1: Exploring User Interface Design Principles and Project Planning Techniques</b> <b>Knowledge:</b> Meet Requirements, User Interface Design, Reviewing a User Interface, Project Planning Techniques <b>Skills:</b> Designing a User Interface, Implementing a User Interface <b>Careers:</b> IT Project Manager  <b>Year 11:</b> <b>Component 3: Effective Digital Working Practices</b> <b>Knowledge:</b> Modern	<b>Year 12:</b> <b>Unit 2: Creating Systems to Manage Information</b> <b>Knowledge:</b> Database Theory <b>Skills:</b> Database Creation <b>Careers:</b> Database Engineer  <b>Unit 3: Using Social Media in Business</b> <b>Knowledge:</b> The ways in which businesses promote their Products and Services, Use Data to Draw Conclusions <b>Skills:</b> Plan a Social Media Campaign for a Business, Implement a Social Media Campaign <b>Careers:</b> Social Media Manager  <b>Year 13:</b> <b>Unit 1: Information Technology Systems</b> <b>Knowledge:</b> Digital Devices in IT Systems, Transmitting Data, Operating Online, Protecting Data and Information, Impact of IT Systems, Issues <b>Skills:</b> Exam Technique	<b>Computing and IT Degree:</b> Computer Science Information Systems Software Engineering  <b>Advanced, Higher and Degree Apprenticeships in:</b> Software Development IT Support Networking and Cloud Data Analytics and Big Data Cyber Security Sales and Digital Marketing	Information Systems Manager  Database Administrators  Network and Computer Systems Admin  IT Project Manager  Computer Systems Analyst  Information Security Analysts  Computer User Support  Computer Network Support Specialist	

Coding Skills

Spreadsheet Skills

Data Knowledge

Meeting Requirements

Drawing Conclusions

**Quality of Education:** Curriculum is planned and sequenced so that new **knowledge** and **skills** build on what has been taught before and towards its clearly defined end points.

<p><b>Skills:</b> Python Programming <b>Careers:</b> Python Programmer</p> <p><b>Year 9 - Animation</b> <b>Knowledge:</b> Interface Layout <b>Skills:</b> Animation Creation <b>Careers:</b> Animator</p> <p><b>Year 9 - Programming</b> <b>Knowledge:</b> Python Programming Theory <b>Skills:</b> Python Programming <b>Careers:</b> Python Programmer</p> <p><b>Year 9 - Spreadsheets</b> <b>Knowledge:</b> Spreadsheet Key Terms <b>Skills:</b> Spreadsheet Creation <b>Careers:</b> Data Analyst</p> <p><b>Year 9 - Ethical, Legal, Cultural and Environmental Concerns</b> <b>Knowledge:</b> Ethical, Legal, Cultural and Environmental Concerns <b>Skills:</b> Word Processing <b>Careers:</b> Data Protection Officer</p> <p><b>Year 9 - User Interfaces</b> <b>Knowledge:</b> User Interface Design <b>Skills:</b> User Interface Creation <b>Careers:</b> User Interface Developer</p> <p><b>Year 9 - Computing Basics</b> <b>Knowledge:</b> Inside a Computer, Binary Theory <b>Skills:</b> Binary <b>Careers:</b> IT Technician</p>	<p>Technologies and their Impact on Organisations, Threats to Digital Systems and how an Organization can Manage them, Responsible Legal and Ethical Use of Data, Planning and Communication in Digital Systems</p> <p><b>Skills:</b> Exam Technique <b>Careers:</b> Data Protection Advisor, Data Security Specialist</p>	<p><b>Careers:</b> Cyber Security Engineer, Network Manager</p> <p><b>Unit 5: Data Modelling</b> <b>Knowledge:</b> Data Modeling Decision-Making Process, Meet Requirements, <b>Skills:</b> Design a Data Model, Implement a Data Model, Evaluate Usefulness <b>Careers:</b> Computer Systems Analyst, Digital Analyst</p>		
---	--	--	--	--

Coding Skills

Spreadsheet Skills

Data Knowledge

Meeting Requirements

Drawing Conclusions