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: Mr Smith 2023-2024				
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
Year 7 - Basic Skills **Knowledge:** E-Safety, Internet Searching **Skills:** PowerPoint Presentation, Word Processing, Desktop Publishing **Year 7 - Web Page Creation** **Knowledge:** Internet Searching **Skills:** HTML Coding **Careers:** Web Designer **Year 7 - Programming** **Knowledge:** Python Programming Theory **Skills:** Python Programming **Careers:** Programmer **Year 8 - Spreadsheets** **Knowledge:** Spreadsheet Key Terms **Skills:** Spreadsheet Creation **Careers:** Data Analyst **Year 8 - Databases** **Knowledge:** Database Key Terms **Skills:** Database Creation **Careers:** SQL Database Administrator **Year 8 - Algorithms** **Knowledge:** Algorithms **Skills:** Flowcharts, Pseudo-code **Careers:** Data Scientist **Year 8 - Programming** **Knowledge:** Python Programming Theory **Skills:** Python Programming **Careers:** Python Programmer	**Year 10:** **Component 2: Collecting, Presenting and Interpreting Data** **Knowledge:** Role and Impact of Data, Using Data to Draw Conclusions **Skills:** Spreadsheets, Presenting Data **Careers:** Systems Analyst **Component 1: Exploring User Interface Design Principles and Project Planning Techniques** **Knowledge:** Meet Requirements, User Interface Design, Reviewing a User Interface, Project Planning Techniques **Skills:** Designing a User Interface, Implementing a User Interface **Careers:** IT Project Manager	**Year 12:** **Unit 2: Creating Systems to Manage Information** **Knowledge:** Database Theory **Skills:** Database Creation **Careers:** Database Engineer **Unit 3: Using Social Media in Business** **Knowledge:** The ways in which businesses promote their Products and Services, Use Data to Draw Conclusions **Skills:** Plan a Social Media Campaign for a Business, Implement a Social Media Campaign **Careers:** Social Media Manager	**Computing and IT Degree:** Computer Science Information Systems Software Engineering **Advanced, Higher and Degree Apprenticeships in:** 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

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Year 9 - Spreadsheets **Knowledge:** Spreadsheet Key Terms **Skills:** Spreadsheet Creation **Careers:** Data Analyst **Year 9 - Programming** **Knowledge:** Python Programming Theory **Skills:** Python Programming **Careers:** Python Programmer **Year 9 - Web Design and Content Creation** **Knowledge:** HTML, CSS, JS. Image theory. **Skills:** HTML Coding, Image manipulatin **Careers:** Web Designer, Web Developer, Content Creator **Year 9 - Ethical, Legal, Cultural and Environmental Concerns** **Knowledge:** Ethical, Legal, Cultural and Environmental Concerns **Skills:** Word Processing **Careers:** Data Protection Officer **Year 9 - User Interfaces** **Knowledge:** User Interface Design **Skills:** User Interface Creation **Careers:** User Interface Developer **Year 9 - Computing Basics** **Knowledge:** Inside a Computer, Binary Theory **Skills:** Binary **Careers:** IT Technician	**Year 11:** **Component 3: Effective Digital Working Practices** **Knowledge:** Modern 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 **Skills:** Exam Technique **Careers:** Data Protection Advisor, Data Security Specialist **Component 2: Collecting, Presenting and Interpreting Data (Retake where necessary)** **Component 1: Exploring User Interface Design Principles and Project Planning Techniques (Retake where necessary)**	**Year 13:** **Unit 1: Information Technology Systems** **Knowledge:** Digital Devices in IT Systems, Transmitting Data, Operating Online, Protecting Data and Information, Impact of IT Systems, Issues **Skills:** Exam Technique **Careers:** Cyber Security Engineer, Network Manager **Unit 5: Data Modelling** **Knowledge:** Data Modeling Decision-Making Process, Meet Requirements, **Skills:** Design a Data Model, Implement a Data Model, Evaluate Usefulness **Careers:** Computer Systems Analyst, Digital Analyst		

Coding Skills Spreadsheet Skills Data Knowledge Meeting Requirements Drawing Conclusions