

Computer Science / Business at St. Monica's

	Year 7	Year 8	Year 9	Year 10		Year 11	
				Comp Science	Business	Comp Science	Business
Topic 1	<ul style="list-style-type: none"> -The School System -E-Safety -The Internet and Web Browsers -Searching the Web -Mail Merge -Microsoft Office 	<ul style="list-style-type: none"> -Introduction to Small Basic -If Statements -While Loops -Turtle Graphics 	<ul style="list-style-type: none"> -The Software Development Lifecycle -Algorithm Design -An Introduction to Python -If Statements -While Loops 	<ul style="list-style-type: none"> -Units -Binary -Binary Addition -Binary Shifts -Hexadecimal -Sound -Images -Characters 	<ul style="list-style-type: none"> -The Dynamic nature of Business -Risk and Reward -Goods and Services -Entrepreneurship 	<ul style="list-style-type: none"> -Abstraction -Decomposition -Pseudocode -Data Representation Retrieval 	<ul style="list-style-type: none"> -Internal & External Growth -Finance
Topic 2	<ul style="list-style-type: none"> -Types of Computer -Input/Output/ Process Model -Computer Hardware -Memory and Secondary Storage -Software -Mobile Applications 	<ul style="list-style-type: none"> -Networks -The Internet and the WWW -Domains and IP -Emails and VOIP -Network Protocols -Network Security 	<ul style="list-style-type: none"> -An Introduction to Linux -The Command Line -File Management -Storing Text Files -Editing Files 	<ul style="list-style-type: none"> -RAM -ROM -Virtual Memory -Characteristics of Storage 	<ul style="list-style-type: none"> -Market Research -Qualitative and Quantitative Data -Market Segmentation -Market Mapping 	<ul style="list-style-type: none"> -Binary Search -Linear Search -Insertion Sort -Merge Sort -Bubble Sort 	<ul style="list-style-type: none"> -Globalisation -Barriers to Trade -How Businesses compete -Ethical and Environmental Considerations
Topic 3	<ul style="list-style-type: none"> -How to use Excel -Summarising Data -Graphs and Charts -Databases -Validation, Searching and Sorting 	<ul style="list-style-type: none"> -Binary -Representing Text -Image Representation -Sound Representation -Instructions 	<ul style="list-style-type: none"> -An Introduction to Business -Marketing Mix -Business Ownership -Profit/Loss/ Break Even 	<ul style="list-style-type: none"> -Networks -Threats to Networks -Memory Management -Peripheral Management 	<ul style="list-style-type: none"> -Revenue, Variable and Fixed Costs -Total Costs, Profit and Loss -Break Even & Margin of Safety, - Interest -Cash Flow 	<ul style="list-style-type: none"> -Sequence, Selection and Iteration -String Manipulation -File Handling 	<ul style="list-style-type: none"> -Product Lifecycle -Pricing Strategies -Business Operation -Production Processes -Quality -Procurement -Customer Service
Topic 4	<ul style="list-style-type: none"> -Copyright and Magazine Covers -Fireworks -Photoshop 	<ul style="list-style-type: none"> -Introduction to Visual Basic -If Statements -For Loops 	<ul style="list-style-type: none"> -Binary -Binary Addition -Binary Shifts -Hexadecimal -Boolean Logic -CPU -ROM/RAM/VM 	<ul style="list-style-type: none"> -DPA -Computer Misuse Act -Copyright, Designs and Patents Act -Open Source Software -Computer Ethics 	<ul style="list-style-type: none"> -Business Ownership -Franchises -Business Location -Business Plans -Shareholders & Stakeholders 	<ul style="list-style-type: none"> --Defensive Design -Maintainability -Sub programs/ procedures -Errors and Types of Test -Features of an IDE 	<ul style="list-style-type: none"> -Quantitative Business Data -Organisation Structures -Job Roles and Responsibilities -Training and Development -Motivation
Topic 5	<ul style="list-style-type: none"> -Algorithm -Computational Thinking -Decomposition -Flowcharts -Pseudocode 	<ul style="list-style-type: none"> -Role of the OS -Utility/ Application Software -Digital Footprint -Legal Implications -Environmental Issues 	<ul style="list-style-type: none"> -A History of AI -AI Developments -Consequences of AI -AI Ethics 	<ul style="list-style-type: none"> -Algorithms -Pseudocode -Project Implementation 	<ul style="list-style-type: none"> -Ecommerce and Social Media --Digital Communication and Payment Systems -Technology and Business -Legislation: Consumer Law -Legislation: Employment Law 	<ul style="list-style-type: none"> GCSE Exam Revision 	<ul style="list-style-type: none"> GCSE Exam Revision