

Curriculum Topics Studied At Springfield

Subject : Computer Science	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	Introduction to the VLE and Networks Computer Systems 1 : Inputs and Outputs/Human Computer Computer Language - Binary /Adding in Binary / ASCII	Representation of Graphics; Vectors v Bitmaps Vector Graphic skills using Inkscape Photo Manipulation using Gimp: Editing Bitmaps – understanding file size Hour of Code	Spreadsheet Modelling Visual Programming using Scratch software	Scratch cont.. E Safety (includes advanced s/sheet skills)	BBC Micro-bit: Logic Gates Databases: (Concepts of AND/OR)	Audacity - sound representation Mini Project - restaurant advert + vinyl printing
Year 8	Computer Systems 2: Operating Systems Fetch/Execute Cycle Networks and Topologies, Packet Switching, Data protection	Health and Safety (Computer Usage) Control Systems (Flowol) Hour of Code	Sorting and Searching Algorithms HTML and CSS	Python Programming	Python cont... Robotics and impact modern world	Top Integrated Trumps Project - selection from: Databases, 2D Design, 3D Printing or Vinyl Printing
Year 9	ECDL - online course	ECDL - online course	ECDL - Word Module	ECDL - Word Module Mock	ECDL -Word Module Exam Mini Integrated Project: preparation for other ECDL Units	Mini Integrated Project: preparation for other ECDL Units Other computing activities like 3D printing will be incorporated here

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Year 10	ECDL Spreadsheet Module	ECDL Spreadsheet Module Mock and Exam PowerPoint Module	ECDL PowerPoint Module Mock and Exam Word Module	ECDL Word Module Mock and Exam	ECDL Improving Productivity Module and Mock	ECDL Improving Productivity Module Exam and re-takes
Year 9 Computer Science Option	Python Programming Algorithms - Flow diagrams	Programming with Turtle Graphics	App Inventor	Preparing for Programming Controlled Assessment (CA) Algorithms and Test Tables	More Algorithms and Flow diagrams Theory through practical work	Theory through practical work
Year 10 Computer Science Option	Introduction to OCR Programming : Python Algorithms and Test Tables re-visited	Preparing for Programming CA and Exam Theory	Preparing for Programming CA and Exam Theory	Programming Practice Theory	Programming Practice Theory	Programming Unit Test
Year 11 Computer Science Option	A452 Practical Investigation CA Theory: Unit 1	A452 Practical Investigation CA Exam Mocks	Theory: Unit 1	Theory: Unit 1	Theory : Revision and Past Papers	Theory : Revision and Past Papers