Year 7-9 curriculum sequencing skeleton- computer science

		Autumn			Spring		Summer	
Y7	3-5 lessons on basic ICT skills (account management, Teams and Go4Schools)	**Online Safety** • Stranger danger • Cyberbullying • Being new to social media • Presentation skills	**Computational Thinking** • Algorithms • Flow diagrams • Decomposition • Abstraction • Bebras Preparation	**Programming Fundamentals** Basic programming in • Microbits • Scratch • Python			**Spreadsheets** • Skills based • Individual topics • Focus on keywords • Focus on basic skills • Graphs • Basic understanding of uses	**Graphics** • Basic vector creation skills in Fireworks and Photopea **Revisit Online Safety** • Respect online • Presentation and word processing skills
Y8	1-2 lessons on basic ICT skills (account management, Teams and Go4Schools)	**Programming Fundamentals** • Python programming • Basic to intermediate level • Bebras Preparation • Further develop algorithm writing	**Graphics and Spreadsheets** • Graphics in a context of running a business • Creating house style for the business • Spreadsheets in the context of a business • Jem and Benny's ice cream business		**Data Representation** • What is binary? • Binary conversions • Images in binary		**Online Safety and Presentation of Information** • Context based • Presenting information using presentation, word processing and DTP software	**Networks** • Basic level • Keyword focused
Y9	1-2 lessons on basic ICT skills (account management, Teams and Go4Schools)	**Computational Thinking** • Bebras Preparation	**Sample iMedia Project** All students follow a Creative iMedia past project until Christmas, called Energy Matters. This helps inform them about options.	**Data Representation** • Binary revisited • Hex • Units of storage • History of computing • Presentation skills	**Big Data** • What is big data and impact on our lives • Ethics of computing	**CS Option:** Python programming **iMedia Option:** Graphics skills **Non Option:** ICT skills for life		**Online Safety** • Online Respect and mental health • Fake news • Digital Footprint • Social media