

Curriculum Sequencing Grid: (KS3 – Y7 Computing)

Year 7	Term 1	Term 2	Term 3
Unit (Tablet in 39 week plan)	<ul style="list-style-type: none"> • Introduction • Slave to Technology • Spreadsheets 	<ul style="list-style-type: none"> • Programming- Scratch • Programming- Python 	<ul style="list-style-type: none"> • Cyber Security • Computer Systems- Hardware • Computer Systems- Software
Key Retainable Knowledge (Required for Y11/13) <ul style="list-style-type: none"> • What... How.... Why.... 	<ul style="list-style-type: none"> • Students to familiarise themselves with the computer systems at Maltby Academy, and basic Presentation skills. • Students shown risks and dangers of working online and e-safety. • Students taught basic spreadsheet skills, and links into data modelling. 	<ul style="list-style-type: none"> • Students given introduction into programming techniques using block/non-textual programming. • Students take their initial skills and apply them to written/textual programming. 	<ul style="list-style-type: none"> • Students taught methods of cyber security attacks and how to prevent them • Students given insight into the physical components of a computer setup. • Students given insight into the possible digital components of a computer setup.
Key Technical Vocabulary (To be modelled and deliberately practiced in context.)	<ul style="list-style-type: none"> • Presentation software • Username • Password • Moore's Law • Technology • Email • Attachment • Carbon Copy • Blind Carbon Copy • E-Safety • Cyber Bullying • Social Network • Addiction • Advantage • Disadvantage • Misuse • Security Risk • Preventing • Internet • Uniform Resource Locator 	<ul style="list-style-type: none"> • Textual programming • Algorithm • Sequence • Selection • Iteration • Algorithm • Integer • Constant • Function • Concatenation • String • Syntax • Loop • Forever • Repeat • Programming Constructs • Non-Textual Programming • Algorithm • Stage • Sprite 	<ul style="list-style-type: none"> • Cyberterrorism • Downloading • Encryption • Hacker • Network • Virus • Malware • Ransomware • Trojan • Worm • Phishing • Piggybacking • Shoulder Surfing • Vulnerability • Prevention • Hardware • Software • Input Device

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	<ul style="list-style-type: none"> • Spreadsheets • Row • Column • Cell • Cell Reference • Active Cell • Label • Value • Currency • Borders • Shading • Formula • Function • Graph/Chart • What If Investigation • Format 	<ul style="list-style-type: none"> • Blocks • Costumes • Variable • Scripts 	<ul style="list-style-type: none"> • Output Device • CPU • Motherboard • Peripheral • RAM • ROM • Operating System • Utility Software • Application Software
Opportunities for Reading	<ul style="list-style-type: none"> • BBC BITESIZE • TEACH ICT • Twitter 	<ul style="list-style-type: none"> • BBC BITESIZE • TEACH ICT • Twitter 	<ul style="list-style-type: none"> • BBC BITESIZE • TEACH ICT • Twitter
Developing Cultural Capital (exposure to very best- essential knowledge and skills of educated citizens – appreciation of human creativity and achievement.)	<ul style="list-style-type: none"> • Bebras • Hour of Code 	<ul style="list-style-type: none"> • Bebras • Hour of Code • Litebot 	<ul style="list-style-type: none"> • Video of people working in Cyber Security • Physical demonstration of parts
Cross Curricular Links (Authentic Connections)	<ul style="list-style-type: none"> • Maths – Spreadsheet skills, coordinates • Life Skills – E-Safety 	<ul style="list-style-type: none"> • Maths – Programming skills - equations 	<ul style="list-style-type: none"> •
Key Assessment	<ul style="list-style-type: none"> • SPA and CTG embedded into lesson structures. 	<ul style="list-style-type: none"> • SPA and CTG embedded into lesson structures. 	<ul style="list-style-type: none"> • SPA and CTG embedded into lesson structures.