

Curriculum Sequencing Grid: (KS3 – Y8 Computing)

Year 8	Term 1	Term 2	Term 3
Unit (Tablet in 39 week plan)	<ul style="list-style-type: none"> • Coding • Databases 	<ul style="list-style-type: none"> • Databases • Graphics 	<ul style="list-style-type: none"> • Programming
Key Retainable Knowledge (Required for Y11/13) <ul style="list-style-type: none"> • What... How.... Why.... 	<ul style="list-style-type: none"> • Students to understand the history of coding data, and how it has evolved to the modern day. • Students to be introduced to basic database skills. 	<ul style="list-style-type: none"> • Students to develop database skills. • Students to gain skills and knowledge on image manipulation and creation. 	<ul style="list-style-type: none"> • Students to build on their knowledge from Y7 in both textual and non-textual languages.
Key Technical Vocabulary (To be modelled and deliberately practiced in context.)	<ul style="list-style-type: none"> • Coding • Colossus • Enigma • Encryption • Decryption • Cryptography • Hieroglyphics • Bletchley Park • Codebreaking • Decipher • Moore's Law • Caesar Ciphers • Database • Tables • Queries • Forms • Reports • Data • Information • Field • Record 	<ul style="list-style-type: none"> • Database • Tables • Queries • Forms • Reports • Data • Information • Field • Record • Filter • Results • Validation • Data Types • Primary Key • Image • Manipulation • Pixel • BMP • JPG • Compression • Lossy 	<ul style="list-style-type: none"> • Flowchart • Print • Variable • Integer • Float • Sequence • Selection • Iteration • Algorithm • Variable • Integer • Constant • IF / ELIF / ELSE • Function • Concatenation • String • Syntax • Textual Programming • Algorithm • Integer • Constant

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	<ul style="list-style-type: none"> • Filter • Results • Validation • Data Types • Primary Key 	<ul style="list-style-type: none"> • Lossless • Bitmap • Vector • Colour Depth • Resolution • Metadata 	<ul style="list-style-type: none"> • Function
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 	<ul style="list-style-type: none"> • Bebras • Hour of code
Cross Curricular Links (Authentic Connections)	<ul style="list-style-type: none"> • History- WWII 	<ul style="list-style-type: none"> • Art- Digital image manipulation 	<ul style="list-style-type: none"> • Maths- integer manipulation
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.