HOLMFIRTH HIGH SCHOOL

Computing Department: KS4 Curriculum Map

	HT1	HT2	HT3	HT4	HT5	HT6
YEAR 10	• Architecture of the CPU • CPU Performance • Embedded Systems • Primary Storage • Secondary Storage	• Data Units • Data Storage • Data Compression • Networks & Topologies • Wired & Wireless Networks • Network Protocols • Network Layers	• Threats to Computer Systems & Networks • Identifying & Preventing Vulnerabilities • Operating systems • Utility Software	• Ethical, Legal, Cultural and Environmental Impact • Computational Thinking • Designing, Creating & Refining Algorithms	• Searching & Sorting Algorithms • Programming Fundamentals • Data Types	• Additional Programming Techniques
HHS CROSS CURRICULAR LINK	• **Engineering** – HT1 – 3 (Y11) • **Motor Vehicle** – HT2 -6 (Y10)	• **Engineering** – HT1 (Y11 Binary Notation) • **Maths** – (Deins Blocks)		• **RPSE** - HT 1 –2 (Y9 Morals and Ethics), • **Business Studies** - HT5 (Y10) • **Geography** - HT 5 (Y7) • **English** – Social Media and effects on society (Y8) and Structure of essay building (KS4)	• **Maths** – H1 (Y7 and (Y11 Iteration (H)), HT2 (Y9 and Y11), Error Handling Skill • **English -** Proof reading skill (KS4)	• **Maths** – HT 1 (Y7 and Y10 and HT2 (Y9 and Y11), Error Handling Skill • **English** - Proof reading skill (KS4)

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	HT1	HT2	HT3	HT4
YEAR 11	• Producing Robust Programs • Defensive Design • Program Testing • Boolean Logic	• Languages • IDEs • Programming Project • Revision	• Programming Project • Revision	• Revision
HHS CROSS CURRICULAR LINK	• **Physics** - HT3 &4 (Y8 & Y10)	• **Maths** – H1 (Y7 and (Y11 Iteration (H)), HT2 (Y9 and Y11), Error Handling Skill • **English** - Proof reading skill (KS4)	• **Maths** – H1 (Y7 and (Y11 Iteration (H)), HT2 (Y9 and Y11), Error Handling Skill • **English** - Proof reading skill (KS4)	