

Year 10 Vocational and Computer Studies				
Refer to	Term 1 – September to December	Term 2 – January to March	Term 3 – April to July	
10 VOC	 R081: Pre-production skills Purpose, content and use of Mood boards Mindmaps Visualisation diagrams Storyboards Storyboards Scripts H&S Target audience User requirements Production schedules Hardware & software File formats and compression Research Review LP5; audience and purpose LP5; systems/product life cycle. LP1; file management PK; use of scripts from other subjects such as English and Drama PK; experience of playing and watching games/films and relating to how the ideas for their creation came about. PK; research skills and experience of looking at sources of information from subjects like History and their own experience e.g. fake news feeds on social media. 	 Key knowledge concepts Stickability links 	 Key knowledge concepts Stickability links 	



<u>J276/01: Units 1 – 5</u>	<u>J276/01: Units 6 – 8 & J276/02: Units 1 – 3</u>	<u>J276/02: Units 4 – 7</u>
10 CS Purpose & function of the CPU 10 Von Neumann architecture 10 CS 11 Factors affecting CPU performance 12 Factors affecting CPU performance 12 Embedded systems 13 Purpose of RAM & ROM 14 Virtual memory 15 Flash memory 16 Need for secondary storage 17 Calculation of capacity 18 Capacity 19 Calculation of capacity 10 Common storage technologies 10 Common storage technologies 10 Common storage technologies 19 Common storage technologies 10 Common storage technologies 11 Calculation of capacity 12 Common storage technologies 13 Characteristics of secondary storage 14 Types of network 15 Factors affecting network performance 16 Client server model 19 P2P model 19 Hadware in a LAN 10 Hosting 10 Cloud computing 10 Virtual networks	 J276/01: Units 6 – 8 & J276/02: Units 1 – 3 Key knowledge concepts Stickability links 	 J276/02: Units 4 – 7 Key knowledge concepts Stickability links



 PK; Entry Level CS studied memory and storage in full. PK; uses of the internet and how they stream and online game at home. 	



Year 11 Vocational and Computer Studies				
Refer to	Term 1 – September to December	Term 2 – January to March	Term 3 – April to July	
11 VOC	 Component 2: A, B, C & Component 3: A1& 2 Data modelling Formulas used in data models How to import a data set How to build a data model How to manipulate a data model. Interpreting data and drawing conclusions. Evaluation. Modern technologies Communication technologies Cloud storage Cloud computing Platforms and services of cloud technologies Merging cloud & traditional systems Implications for organisations Impact of modern technologies Changes to modern teams Managing modern teams Communication inclusivity and accessibility Impact on organisations Cyber security Threats to data External threats Internal threats User access restrictions Data level protection 	 Component 3: B1 &2, C1 &2, D Key knowledge concepts Stickability links 	 Course complete Key knowledge concepts Stickability links 	



11 CS J276/03: NEA & J276/01: Units 1 & 2 Decomposition
 Selection Iteration Variables



 Files handling: read, write and append Stub-programs Testing a program Evaluation Purpose & function of the CPU Von Neumann architecture Components of the CPU & their functions Factors affecting CPU performance Embedded systems Purpose of RAM & ROM Virtual memory Flash memory LP3; programming techniques of sequence, selection & iteration PK; these topics will have been covered in year 10 by the students and they will be drawing on this knowledge to re-cap, revise, practice exam techniques and embed further knowledge. 		
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