

## Year 11 GCSE Computer Science AR3 Revision List

Paper 1					
Student Objective	Grade	DR	Em	As	Ex
<b>1.1 Systems architecture</b> CPU, Von Neumann, embedded systems	1-9				
<b>1.2 Memory</b> RAM, Virtual memory	1-9				
<b>1.3 Storage</b>	1-9				
<b>1.4 Wired &amp; Wireless networks</b> LAN, WAN, Client-Server & Wifi	1-9				
<b>1.5 Network topologies, protocols &amp; layers</b> MAC/IP	1-9				
<b>1.6 System security</b> SQL injection – What is it? How to stop it?	1-9				
<b>1.7 System software</b> The OS, utility software, backup	1-9				
<b>1.8 Ethical, legal &amp; environmental issues</b> Ethics Extended response question - stakeholders	1-9				
Paper 2					
<b>2.1 Algorithms</b> Pseudocode Sorts and searches e.g. linear search, insertion sort	1-9				
<b>2.2 Programming techniques</b> Functions and procedures Programming constructs (sequence, selection & iteration) Data structures & data types	1-9				
<b>2.3 Producing robust programs</b> Testing – types (iterative vs final)	1-9				
<b>2.4 Computational logic</b> Logic circuit diagram from Boolean statements Truth table for a given logic statement	1-9				
<b>2.5 Translators and facilities of languages</b> Features of high and low level programming languages Compilers Vs Interpreters Features of an IDE	1-9				
<b>2.6 Data representation</b> HEX to BIN Binary	1-9				