

Year 10 Assessment Grid Computer Science					
System Architecture					
Unit	Low Attaining Year 10 student	Middle Attaining Year 10 student	High Attaining Year 10 student		
1.1	Has a clear understanding of systems architecture	Has a detailed understanding of systems architecture including basics of the Von Neumann system	Has a through understanding of systems architecture including developing knowledge of the Von Neumann system		
1.2	Has a clear understanding of memory and storage giving relevant examples using their properties	Has a detailed understanding of memory and storage including the differences between primary and secondary storage	Has a through understanding of memory and storage including the differences between primary and secondary storage as well as virtual memory		
1.3	Has a clear understanding of computer networks, connections, and protocols	Has a detailed understanding of computer networks, connections, and protocols including the basics of network topologies	Has a through understanding of computer networks, connections, and protocols including developing knowledge of network topologies		
1.5	Has a clear understanding of systems software	Has a detailed understanding of systems software including the basis purposes of operating and utility software	Has a through understanding of systems software including developing knowledge of the purposes of operating and utility software		
Computational thinking , Algorithms and Programming					
2.1	Has a clear understanding of the different types of searching and storing algorithms as well as developing simple solutions using flow diagrams and sequencing	Has a detailed understanding of the different types of searching and storing algorithms as well as developing solutions using flow diagrams and sequencing	Has a through understanding of the different types of searching and storing algorithms, as well as developing solutions using flow diagrams and sequencing for more complex problems		
2.2	Has a clear understanding of programming fundamentals including using different types of data as well as using selection	Has a detailed understanding of programming fundamentals including using different types of data for a given problem as well as using selection and iteration	Has a through understanding of programming fundamentals including using different types of data for a given problem as well as using selection & iteration including the correct use of functions & procedures and SQL commands		
2.4	Has a clear understanding of Boolean logic	Has a detailed understanding of Boolean logic and using the truth tables including drawing basic logic gate formulas	Has a through understanding of Boolean logic and using the truth tables including drawing logic gate formulas for more than 2 inputs		
	Code Provider				

Creativity

Challenge



Year 11 Assessment Grid Computer Science					
System Architecture					
Unit	Low Attaining Year 10 student	Middle Attaining Year 10 student	High Attaining Year 10 student		
1.4	Has a clear understanding of network security	Has a detailed understanding of network security including the basic of risks and preventative measures	Has a through understanding of network security including developing knowledge of risks and preventative measures		
1.6	Has a clear understanding of ethical, legal, cultural and environmental impacts of digital technology	Has a detailed understanding of ethical, legal, cultural and environmental impacts of digital technology	Has a through understanding of ethical, legal, cultural and environmental impacts of digital technology		
Computational thinking , Algorithms and Programming					
2.3	Has a clear understanding of how to produce robust programs	Has a detailed understanding of how to produce robust programs including basic skills in design and testing	Has a through understanding of how to produce robust programs while developing skills in design and testing		
2.5	Has a clear understanding of programming languages and integrated development environment including basic knowledge of translators	Has a detailed understanding of programming languages and integrated development environment including some knowledge of translators and being able to differentiate between compilers and interprets	Has a through understanding of programming languages and integrated development environment including wide knowledge of translators and being able to differentiate between compilers and interprets		

