

Parkside School Curriculum Map 2025/6

Applied: Computer Science

Year 10					
Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
System Architecture, Memory and Storage This unit will give a deep understanding of how a computer functions and processes data. Overview of the knowledge and skills covered in this unit: Systems Architecture The purpose of the CPU Common CPU components and their function CPU performance Embedded systems Memory & Data Storage Primary storage Secondary storage Units	Data Representation This unit will give a deep understanding of how data is represented within a computer system and how it can be manipulated in binary form. Overview of the knowledge and skills covered in this unit: Data Storage Numbers – Bits and Bytes, Binary, Hex, Denary, Binary Addition, Binary Shifts Characters Images Sound How will this be assessed? Midpoint Assessment Practice Exam	Half term 3 Networking This unit will give a deep understanding of how computers are networked, how they communicate and the hardware necessary to allow this. Overview of the knowledge and skills covered in this unit: Networks & topologies Network Hardware Wired and wireless networks Protocols and layers Network Performance How will this be assessed? Midpoint Assessment Practice Exam Questions	Half term 4 Network Security This unit will give a deep understanding of the threats that face networks and computer systems in the modern world. Overview of the knowledge and skills covered in this unit: Threats to computer systems and networks Identifying and preventing vulnerabilities How will this be assessed? Midpoint Assessment Practice Exam Questions	Half term 5 Systems Software This unit will give a deep understanding of operating systems, utility software and user interfaces within modern OS. Overview of the knowledge and skills covered in this unit: Operating systems Utility software Compression and Defragmentation How will this be assessed? Midpoint Assessment Practice Exam Questions	Legal, Ethical, Cultural and environmental impacts This unit will give an in depth look at the legislation and ethical/cultural limitations or effects of computing. Overview of the knowledge and skills covered in this unit: Ethical issues Legal issues Cultural issues Environmental issues Privacy issues The data protection act Computer misuse act Copyright Software licences
 How will this be assessed? Midpoint Assessment Practice Exam Questions 	Questions				 How will this be assessed? Midpoint Assessment Practice Exam Questions Summer Mocks