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Year 11

Half -Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Themes/ Content/ Units covered 	Learning the characteristics of types of network (LANs & WANS)  Identifying factors that can affect network performance  Exploring hardware needed to connect to a network  Learning about the internet  Designing network topologies   Understanding & applying searching & sorting algorithms   Developing programming skills to design a program  	Learning about modes of network connection  Learning about encryption  Exploring IP addressing & MAC addressing  Learning about standards & protocols (including layers)  Using SQL to search for data  Understanding defensive design considerations  Identifying and using suitable test data for a given scenario  Developing programming skills to write a program  	Learning about threats to computer systems & networks  Identifying & preventing vulnerabilities in computer systems & networks  Learning the purpose & functionality of operating systems  Learning about the different levels of programming languages  Exploring the tools & facilities available in an IDE  Developing programming skills to test & refine a program  	Learning the purpose & functionality of utility software  Exploring the impacts of digital technology on society   Exploring legislation relevant to Computer Science  Developing computational thinking skills 	Revision and exam technique in preparation for your exam 