

Week Commencing	Lesson topic	HAIL	Assessment
Staff INSET 01/09 Students Return 02/09	1.3.2. Protocols and layers - Wired and wireless networks - Encryption - IP and MAC addressing - Standards and common protocols (TCP/IP, HTTP, HTTPS, FTP, POP, IMAP, SMTP) - Layers		
07/09/2026		Seneca – 1.3 Networks – IP and MAC addressing	
14/09/2026		Seneca – 1.3 Networks – Protocols	Learning checkpoint – networks
21/09/2026	Python programming. Adaptive content focusing on prior identified weaknesses and linked to exam questions.	Seneca – 2.2 Programming	
28/09/2026		Exam questions (printed)	
05/10/2026	1.3.1 Wired and wireless networks - types of networks: (LAN, WAN) - factors that affect the performance of networks - the different roles of computers in a client-server and a peer-to-peer network - the hardware needed to connect stand-alone computers into a Local Area Network: (wireless access points, routers/switches, NIC (Network Interface Controller/Card), transmission media) - the internet as a worldwide collection of computer networks: (DNS (Domain Name Server), hosting / the cloud, the concept of virtual networks). - star and mesh network topologies	Seneca – 1.3 Networks – LANs and WANs	
12/10/2026		Seneca – 1.3 Networks – Hardware	
19/10/2026		Seneca – 1.3 Networks – DNS, topologies	Learning checkpoint – networks 2
October Half Term			
02/11/2026	Exam Preparation and revision, exam technique practice including application / past paper questions / programming questions		Core Mocks
09/11/2026	2.3 Producing robust programs in Python - defensive design considerations (input sanitisation/validation, planning for contingencies, anticipating misuse, authentication) - maintainability (comments, indentation) - the purpose of testing - types of testing: (iterative, final/terminal) - how to identify syntax and logic errors - selecting and using suitable test data (normal, erroneous and borderline).		Core Mocks
16/11/2026		Seneca – 2.3 Robust programs, defensive design	
23/11/2026		Seneca – 2.3 testing	Learning checkpoint – Robust programs in Python
30/11/2026	2.1.2 Designing, creating and refining algorithms - Input/output/processes - Structure diagrams - Pseudocode - Flowcharts - Trace tables	Seneca – 2.1 Algorithms - flowcharts	
07/12/2026		Seneca – 2.1 Algorithms – pseudocode	
14/12/2026		Seneca – 2.1 Algorithms – trace tables	Learning checkpoint – algorithms
Christmas Break			
04/01/2027	Exam Preparation and revision, exam technique practice including application / past paper questions / programming questions		
11/01/2027	1.6. Systems software - The purpose of Operating Systems - Utility software (encryption / defragmentation / compression)	Seneca – 1.5 Systems software - the OS	Full mocks
18/01/2027		Seneca – 1.5 Systems software – Utility software	Full mocks

25/01/2027		Seneca – 1.5 Systems software - Encryption	Full mocks
01/02/2027	Python programming. Adaptive content focusing on prior identified weaknesses and linked to exam questions.	Exam questions (printed)	
08/02/2027		Exam questions (printed)	
February Half Term			
22/02/2027	2.5 Programming languages and IDEs	Exam questions (printed)	
01/03/2027	- characteristics and purpose of different levels of programming language, including low level languages - the purpose of translators - the characteristics of an assembler, a compiler and an interpreter - common tools and facilities available in an integrated development environment (IDE): (editors, error diagnostics, run-time environment, translators).	Exam questions (printed)	Learning checkpoint – Programming languages and IDEs
08/03/2027	Python programming. Adaptive content focusing on prior identified weaknesses and linked to exam questions.	Exam questions (printed)	
15/03/2027		Exam questions (printed)	
22/03/2027		Exam questions (printed)	Learning checkpoint – Python programming
Easter Break			
12/04/2027	Exam Preparation and revision, exam technique practice including application / past paper questions / programming questions	Exam questions - printed	
13/04/2027	Preparation and revision, exam technique practice including application / past paper questions / programming questions	Exam questions - printed	
26/04/2027	Preparation and revision, exam technique practice including application / past paper questions / programming questions	Exam questions - printed	
03/05/2027	Preparation and revision, exam technique practice including application / past paper questions / programming questions	Exam questions - printed	
10/05/2027	GCSE Computer Science Paper 1 – 10th May		
17/05/2027	GCSE Computer Science Paper 2 – 19th May		