



Units

Paper 1	Paper 2
1.1 Systems Architecture 1.2 Memory and Storage 1.3 Computer Networks, Connections and Protocols 1.4 Network Security 1.5 Systems Software 1.6 Ethical, Legal and Cultural Issues	2.1 Algorithms 2.2 Programming Fundamentals 2.3 Producing Robust Programs 2.4 Boolean Logic 2.5 Programming Languages and IDEs

Date	Half Term	Week	Lesson 1	Lesson 2	Lesson 3
6th September	1	1	Introduction	1.1 Architecture of the CPU	1.1 Architecture of the CPU
13th September	1	2	1.1 How common characteristics of CPUs affect their performance	1.1 Embedded Systems	Programming
20th September	1	3	Programming	Revision	1.2 RAM and ROM
27th September	1	4	1.2 Virtual Memory	1.1 Test	1.1 Action
4th October	1	5	1.2 Common Types of Storage	1.2 Common Types of Storage	1.2 Applications of Storage
11th October	1	6	1.2 Units	1.2 Data capacity and calculation of requirements	1.2 Test
1st November	2	7	1.2 Action	1.2 Binary conversion and addition	1.2 Binary shift and hexadecimal
8th November	2	8	1.2 Catch-up	1.2 Character Sets	1.2 Bitmaps
15th November	2	9	1.2 Sound	1.2 Compression	1.2 Compression
22nd November	2	10	1.2 Exam Questions	1.2 Revision	Programming
29th November	2	11	Programming	Programming	1.2 Test
6th December	2	12	1.2 Action	Programming	Programming
13th December	2	13	Programming	1.3 Types of Networks	1.4 Factors that Affect Network Performance
4th January	3	14	1.3 Client-server and peer-to-peer	1.3 Hardware used to connect a LAN	1.3 The Internet

10th January	3	15	1.3 Catch-up	1.3 Star and mesh network topologies	1.3 Modes of connection
17th January	3	16	1.3 Wi-Fi encryption	1.3 IP and MAC addressing	1.3 Standards and common protocols
24th January	3	17	1.3 The concept of layers	1.3 Test	1.3 Action
31st January	3	18	1.4 Forms of Attack	1.4 Malware	1.4 Phishing part 1
7th February	3	19	1.4 Phishing part 2	1.4 Brute Force Attack	1.4 Denial of Service Attack
21st February	4	20	1.4 Data interception and theft	1.4 SQL Injection	1.4 Identifying and preventing vulnerabilities
28th February	4	21	1.4 Test	1.4 Action	2.2 Basic programming constructs
7th March	4	22	2.2 Data types, operators and string manipulation	2.2 File handling	2.2 Records and SQL
14th March	4	23	2.2 Arrays and sub-problems	2.2 Random number generation	2.1 Linear and Binary Search
21st March	4	24	2.1 Bubble Sort	2.1 Insertion Sort	2.1 Merge Sort
28th March	4	25	2.4 Boolean Logic	Catch-Up	Information Lesson
19th April	5	26	BANK HOLIDAY	1.5 The purpose and functionality of operating systems	1.5 Operating systems part 1
25th April	5	27	1.5 Operating systems part 2	1.5 Utility system software	1.5 Test & Action
2nd May	5	28	BANK HOLIDAY	1.6 Ethical issues	1.6 Privacy issues
9th May	5	29	1.6 Legal issues	1.6 Cultural Issues	1.6 Environmental issues
16th May	5	30	1.6 How digital technology impacts Society	1.6 Open-source vs Proprietary Software	1.6 Text & Action
23rd May	5	31	Revision	Revision	Revision
6th June	6	32	MOCKS	MOCKS	MOCKS
13th June	6	33	MOCKS	MOCKS	MOCKS
20th June	6	34	Work Exp	Work Exp	Work Exp
27th June	6	35	Programming and Revision	Programming and Revision	Programming and Revision
4th July	6	36	Programming and Revision	Programming and Revision	Programming and Revision
11th July	6	37	Programming and Revision	Programming and Revision	Programming and Revision
18th July	6	38	Programming and Revision	Programming and Revision	Programming and Revision