

Lesson number	Class 1	Class 2	Unit	Lesson name
1	Wed 19 Aug	Wed 19 Aug	Computer architecture	Memory & storage media
2	Thu 20 Aug	Thu 20 Aug	Computer architecture	Memory & storage medic calculations
3	Mon 24 Aug	Mon 24 Aug	Computer architecture	High & low level languages; compilers; assembler
4	Wed 26 Aug	Wed 26 Aug	Computer architecture	Operating systems; interrupts
5	Thu 27 Aug	Fri 28 Aug	Computer architecture	Compression
6	Wed 02 Sep	Wed 02 Sep	Computer architecture	Compression
7	Thu 03 Sep	Thu 03 Sep	Computational thinking	Mini task - Intro, develop pseudo code or flow chart
8	Mon 07 Sep	Mon 07 Sep	Computational thinking	Mini task - Test algorithm with trace table
9	Wed 09 Sep	Wed 09 Sep	Computational thinking	Mini task - Write Python (part 1)
10	Thu 10 Sep	Fri 11 Sep	Computational thinking	Mini task - Write Python (part 2)
11	Wed 16 Sep	Wed 16 Sep	Computational thinking	Mini task - Write Python (part 3)
12	Thu 17 Sep	Thu 17 Sep	Computational thinking	Mini task - Finalise, submit
13	Mon 21 Sep	Mon 21 Sep	Networks	Data transmission methods (1.2.1)
14	Wed 23 Sep	Wed 23 Sep	Networks	Error detection and connection methods (1.2.1)
15	Thu 24 Sep	Fri 25 Sep	Networks	Internet communication theory (1.2.3)
16	Wed 30 Sep	Wed 30 Sep	Networks	Programming serial connection with parity checks
17	Wed 07 Oct	Wed 07 Oct	Networks	Programming serial connection with parity checks
18	Thu 08 Oct	Fri 09 Oct	Networks	Programming serial connection with parity checks
19	Wed 14 Oct	Wed 14 Oct	Security	Ethics revisited
20	Thu 15 Oct	Thu 15 Oct	Security	Protecting data with passwords, biometric, firewalls, encryption
21	Wed 28 Oct	Wed 28 Oct	Security	Programming network sockets; Wireshark inspection
22	Thu 29 Oct	Fri 30 Oct	Security	Programming network sockets with SSL; Wireshark inspection
23	Wed 04 Nov	Wed 04 Nov	Security	Symmetric encryption
24	Thu 05 Nov	Thu 05 Nov	Security	Symmetric encryption practical
25	Mon 09 Nov	Mon 09 Nov	Security	Hashing algorithms compared
26	Wed 11 Nov	Wed 11 Nov	Security	Protecting projects from DoS, phishing, pharming
27	Thu 12 Nov	Fri 13 Nov	Security	Protecting data from corruption, human error, malicious action; malware
28	Wed 25 Nov	Wed 25 Nov	Databases	Introducing relational data; identifying tables
29	Thu 26 Nov	Thu 26 Nov	Databases	Identifying fields; identifying primary and foreign keys
30	Mon 30 Nov	Mon 30 Nov	Databases	Creating a database; creating a table; creating fields
31	Wed 02 Dec	Wed 02 Dec	Databases	Design queries with query-by-example grid
32	Thu 03 Dec	Fri 04 Dec	Databases	Design queries with query-by-example grid
33	Wed 09 Dec	Wed 09 Dec	Databases	Design queries with query-by-example grid
34	Thu 10 Dec	Thu 10 Dec	Databases	Python integration of databases
35	Mon 04 Jan	Mon 04 Jan	Databases	Python integration of databases
36	Wed 06 Jan	Wed 06 Jan	Databases	Review
37	Thu 07 Jan	Fri 08 Jan	Databases	Quiz
38	Wed 13 Jan	Wed 13 Jan	(exams)	
39	Thu 14 Jan	Thu 14 Jan	(exams)	
40	Mon 18 Jan	Mon 18 Jan	(exams)	
41	Wed 20 Jan	Wed 20 Jan	(exams)	

42	Thu 21 Jan	Fri 22 Jan	(exams)		
43	Wed 27 Jan	Wed 27 Jan	(exams)		
44	Thu 28 Jan	Thu 28 Jan	(exams)		
45	Mon 01 Feb	Mon 01 Feb	Pre-release	Introduce & class discuss. Design individual solution	
46	Wed 03 Feb	Wed 03 Feb	Pre-release	Program first attempt	
47	Thu 04 Feb	Fri 05 Feb	Pre-release	Program first attempt	
48	Wed 10 Feb	Wed 10 Feb	Pre-release	Program first attempt	
49	Mon 22 Feb	Mon 22 Feb	Pre-release	Share and discuss different strategies	
50	Wed 24 Feb	Wed 24 Feb	Pre-release	Program second attempt	
51	Thu 25 Feb	Fri 26 Feb	Pre-release	Program second attempt	
52	Wed 03 Mar	Wed 03 Mar	Pre-release	Program second attempt	
53	Thu 04 Mar	Thu 04 Mar	Pre-release	Class brainstorm of questions and answers	
54	Mon 08 Mar	Mon 08 Mar	Pre-release	Class brainstorm of questions and answers	
55	Wed 10 Mar	Wed 10 Mar	Pre-release	Class brainstorm of questions and answers	
56	Thu 11 Mar	Fri 12 Mar	Review		
57	Wed 17 Mar	Wed 17 Mar	Review		
58	Thu 18 Mar	Thu 18 Mar	Review		
59	Mon 22 Mar	Mon 22 Mar	Review		
60	Wed 24 Mar	Wed 24 Mar	Review		
61	Thu 25 Mar	Fri 26 Mar	Review		
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