

Scheme of Work
GCSE Computing 2012 - 14

Autumn Term – Year 10

Week	Topic	Theory	Programming
1	2.1.2	Disassemble PC	Logic Puzzles
2	H/W	Input/Output	Flow
3		Storage – Magnetic, Optical & solid state	Algorithmic problems
4		Storage	Scratch
5		CPU	Scratch
6		RAM, ROM, VM, Cache, Flash	Scratch
7		Logic Gates	Scratch
8		UNIT 1 TEST	Scratch
Half Term			
8	2.1.4	Units – Bits, bytes, nibbles, KB - PB	Python – Print and input - variables
9	Binary	Conversion binary ↔ denary	Python – Arithmetic – data types
10		Binary addition	Python – IF – data types
11		Conversion binary ↔ hexadecimal ↔ denary	Python - IF
12		Revision/practice	Python - WHILE
13		Character sets – Unicode & ASCII	Python - WHILE
14		Images – Pixels, colour depth, resolution	Python - FOR
15		Sound	Python - FOR
Christmas			

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Spring Term – Year 10

Week	Topic	Theory	Programming
16		Compression	Python – Example programs
17		UNIT 2 TEST	Python – Example programs
18	2.1.7	Pseudocode	Python – Functions and procedures
19	Coding	Flowcharts	Python – Functions and procedures
20		Generations (1 st , 2 nd , 3 rd) & translation	Python – Turtle
21		Variables, constants and data types	Python – Turtle
Half Term			
22	A452	UNIT 3 TEST	A452
23		A452	A452
24		A452	A452
25		A452	A452
26		A452	A452
Easter			

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Summer Term – Year 10

Week	Topic	Theory	Programming
27		A452	A452
28		A452	A452
29		A452	A452
30		A452	A452
31		A452	A452
32		A452	A452
Half Term			
33	2.1.3	Categories – System, utility, application	Python – Lists
34	S/W	Operating Systems	Python – Lists
35		Utility programs	Python – File handling
36		Applications – bespoke, off the shelf, OSS	Python – File handling
37		UNIT 3 TEST	Python – More programs
38		Spare	Python – More programs
39		Spare	Python – More programs
Summer			

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Autumn Term – Year 11

Week	Topic	Theory	Programming
1	A453	Programming revision	Programming revision
2		Programming revision	Programming revision
3		A453	A453
4		A453	A453
5		A453	A453
6		A453	A453
7		A453	A453
8		A453	A453
Half Term			
8	A453	A453	A453
9		A453	A453
10		A453	A453
11	Mocks	Mock Revision	Mock Revision
12		Mock Revision	Mock Revision
13		Mock Revision	Mock Revision
14		Mocks	Mocks
15		Mocks	Mocks
Christmas			

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Spring Term – Year 11

Week	Topic	Theory	More Theory
16	A453	A453	A453
17		A453	A453
18		A453	A453
19	2.1.5	D/B concept	SQL Zoo
20	D/B	DBMS	MS Access
21		Relational databases	MS Access
Half Term			
22	2.1.6	Network vs standalone & H/W	Topologies
23	Comms	Client-server vs peer-peer	IP/MAC/Packets
24		LAN vs WAN	Security & policies
25		Internet – IP and DNS	HTML
26		HTML	File formats & compression
Easter			

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Summer Term – Year 11

Week	Topic	Theory	More Theory
27		Revision	Revision
28		Revision	Revision
29		Revision	Revision
30		Revision	Revision
31		Revision	Revision
32		Revision	Revision
Half Term			
33	Study	Study leave	Study leave
34	Leave	Study leave	Study leave
35		Study leave	Study leave
36		Study leave	Study leave
37		Study leave	Study leave
38		Study leave	Study leave
39		Study leave	Study leave
Summer			