

For teaching from 2012 For awards from 2014

COMPUTER SCIENCE

SPECIMEN ASSESSMENT MATERIALS

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Candidate Name	Centre Number			Candidate Number						
						0				



GCSE

COMPUTER SCIENCE

UNIT 1: Understanding Computer Science

SPECIMEN PAPER

(1 hour 30 minutes)

INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen. Do not use pencil or gel pen. Do not use correction fluid.

Answer all questions.

Write your answers in the spaces provided in this booklet.

If you run out of space, use the continuation pages at the back of the booklet, taking care to number the question(s) correctly.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets at the end of each question or part-question. Quality of written communication will be assessed in question **13**.

[6]

1. Tick (\checkmark) to show which **four** of the following are functions of an operating system. [4]

Managing the printer	
Spellchecking	
Dealing with errors	
Sorting records	
Setting tabulation	
Handling data storage	
Managing emails	
Organising resources	

- 2. The diagram below shows three components of a Central Processing Unit (CPU).
 - (a) Describe the purpose of these components.



(i)	Controller
(ii)	Arithmetic/Logic Unit (ALU)
•••••	

	(iii)	Internal Memory	
(b)	Briefly	v describe what happens in the fetch-execute cycle.	[2]

3. Tick (\checkmark) to show which **four** of the following are common data types provided by most programming languages. [4]

Boolean	
Records	
Integer	
String	
Capacity	
Character	
Nybble	

4. Describe the function and purpose of each of the following system maintenance tools in a computer system: [6]

Disk Compression
Defragmentation
System Restore

- 5. A company has decided to network its computers so that it can share data and peripherals over a local intranet.
 - (a) Describe **three** different topologies that could be used to network the computers and give a different advantage for each. [6]

(b)	The company decides to set user access levels on the network. Explain, using a suitable example, why it should do this. [2]

6. Complete the table below to give a different example of use for each of the following storage media. In each case justify why it is the best choice. [8]

Storage Media	
Optical	Example of use
	Justification
Magnetic	Example of use
	Justification
Solid state	Example of use
	Justification
Storage in the Cloud	Example of use
	Justification

7.	Desc	Describe the role of the following in a computer system: [
	(a)	Random Access Memory (RAM):					
	(b)	Read Only Memory (ROM):					
	(c)	Flash Memory:					
	(d)	Cache Memory:					
8.	Desc	cribe the role of the operating system when managing system resources.	[5]				

9.	(a)	State the purpose of a Domain Name System (DNS) server.	[1]
	(b)	State the purpose of an Internet Protocol (IP) address.	[1]
	(c)	State two facilities that are normally available from an Internet Service Provider (ISP).	[2]
10.	Files	are compressed when transmitted over the Internet.	
	(a)	Explain the difference between lossy and lossless compression.	[2]
	(b)	State the type of compression format for MP3 files.	[1]

[5]

11. (a) Complete the following table by filling in the empty cells:

8		=	1	byte
	bytes	=	1	kilobyte
1024	kilobytes	=	1	
1024		=	1	gigabyte
1024	gigabytes	=	1	

(b) Complete the following *Truth Table* by writing either **False** or **True** in the last column: [4]

Α	В	A and B
True	True	
True	False	
False	True	
False	False	

(c) The ASCII standard was first published in1963 by the American Standards Association.

(i)	State what the letters ASCII stand for.	[1]
(ii)	State the purpose of ASCII.	[1]
(iii)	Convert the denary number 47 into 8-bit binary code showing detail of your method of solution.	ils [2]
(iv)	Convert the denary number 26 into hexadecimal code showing det of your method of solution.	ails [2]

12. (a) A computer program for stock taking is written in a *high level language*. Tick (\checkmark) **two** boxes to show which of the following are *common features* of high level languages. [2]

	Written in b Written in h Portable Easily unde	inary exadecimal rstood					
(b)	High level la understand.	anguages need . State the nan	l to be trai ne given t	nslated into o this forma	a format that.	at a computer o	:an [1]
(c)	Define the t	erm variable in	a compu	ter program	1.		[1]
(d)	Tick (✓) on	e box to indicat	te which is	s not a cori	ect variable	type.	[1]
	Static						
	Local						
	Global						
	Formula						

13. Discuss the importance of conforming to professional standards and applying security measures when using computer systems responsibly and effectively. [12]

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Quality of written communication will be assessed in this question.
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GCSE COMPUTER SCIENCE

Unit 1: Understanding Computer Science

Specimen Assessment Material

Mark Scheme

Qu.	Answer	Marks	MAX
1.	One mark for each of:		4
	Managing the printer	1 mark	
	Dealing with errors	1 mark	
	Handling data storage	1 mark	
	Organising resources	1 mark	
2. (a)	Up to two marks for each of:		6
	(i) Controller: Directs the flow of instructions and data within the CPU. Coordinates the other parts of the CPU.	2 marks	
	(ii) ALU: The ALU performs all the mathematical calculations and logical operations in the CPU. It can add, subtract, multiply, divide, and perform a host of other calculations on binary numbers.	2 marks	
	(iii) Internal memory: Where data and instructions are held for use by the CPU and where the CPU puts the results it generates.	2 marks	
2. (b)	<i>Fetch-execute cycle:</i> In the fetch phase an instruction is copied into the control unit and decoded. In the execute phase the instruction is obeyed.	2 marks	2
3.	One mark for each of:		4
	Boolean	1 mark	
	Integer	1 mark	
	String	1 mark	
	Character	1 mark	
4.	Up to two marks for each of:		6
	Disk Compression: Reducing the size of a file, to free up storage space usually for storage on backing store.	2 marks	
	Defragmentation: Collecting together the separate elements of split/fragmented files to improve the access speed/performance of a disk.		
	System Restore: Replacing corrupt or lost data using copies from a backup system to return the data to the state before it failed.	2 marks	

Qu.	Answer	Marks	MAX
5. (a)	One mark for each description and one mark for a different advantage of each: Accept an annotated diagram as an alternative to a description.		6
	Star: All the devices are connected directly to one central computer/file server/hub. Advantages:	2 marks	
	Simple to isolate faults Easy to add and remove devices Different devices can transmit at different speeds		
	System is more secure		
	Bus: Each device is connected to a main communication cable, called a bus, along which signals are sent. Advantages: Cheap to install as uses minimum amount of cable Easy to add and remove devices	2 marks	
	<i>Ring:</i> Each device is connected to a loop around which signals are sent. <i>Advantages:</i> Collisions do not occur as messages are passed around the ring in	2 marks	
	one direction only Very high transmission rates possible		
- (1)	Accept other topologies		
5. (b)	Up to two marks for: Users only need to see data which is relevant to their role in the company, for example the Human Resources Manager needs to see all the personal details of each employee but a receptionist does not need to do so	2 marks	2
6.	One mark for each example of use, plus one mark for each justification:		8
	<i>Optical</i> : e.g. Storage of films Inexpensive to buy / portable, so easy to carry around / universally	1 mark	
	readable by a most computers and dedicated video disc players	1 mark	
	<i>Magnetic:</i> e.g. Creating network backups Very large capacity / relatively inexpensive	1 mark 1 mark	
	Solid state: e.g. Handheld device Quick access (for instant on) / not sensitive to being moved around while in use	1 mark 1 mark	
	Storage in the Cloud: e.g. for large companies	1 mark	
	Only pay for what you use / secure / saves storing large volumes of data on site / can share files	1 mark	

Qu.		Answer	Marks	MAX
7.		Up to two marks for each description:		8
	RAM: RAM is directly addressable and holds one word or byte in each location giving the same access time for each. It stores the data you are working on / stores the modules needed to make applications work / stores programs being executed / acts as a buffer for external storage devices		2 marks	
		2 marks		
		<i>Flash:</i> Flash memory is treated as an additional installed disk drive and can be electrically erased and re-programmed	2 marks	
		Cache Memory: Data is read from storage into a section of memory temporarily to reduce the processing time allowing faster access to data when programs are running	2 marks	
8.		One mark for each description, development or example up to		5
		 a maximum of five: handles the memory management handles file storage schedules tasks for efficient use of the system handles allocation of resources for the software that runs on the computer handles all of the software drivers for the hardware and peripherals handles all of the interactions between the user and the computer presents the file structure of a hard drive in a manner that a user can understand converts the physical motions of the user - such as moving the mouse or typing on the keyboard - for the computer 		
9. (a	a)	Converts a domain name/URL into its physical/IP address	1 mark	1
(t) 	It is a unique address that identifies a computer on a network such as the Internet	1 mark	1
(0	c)	Any two of: web access email VoIP web hosting / FTP uploading	1 mark 1 mark	2
10. (a	a)	Lossy: Discards detail to gain greater compression Lossless: Doesn't lose detail in compression	1 mark 1 mark	2
(t	o)	Lossy	1 mark	1

Qu.	Answer	Marks	MAX
11. (a)	One mark for each of:		5
	bits	1 mark	
	1024	1 mark	
	megabyte	1 mark	
	megabyte	1 mark	
	terabyte	1 mark	
(b)	One mark for each correct answer:		Δ
(6)		1 mark	-
	False	1 mark	
	False	1 mark	
	False	1 mark	
(C)	(i) American Standard Code for Information Interchange.	1 mark	6
	(ii) Represents characters in a binary code so that the computer can communicate.	1 mark	
	(iii) 00101111 One mark for method and one for correct answer	2 marks	
	(iv) 1A One mark for method and one for correct answer	2 marks	
12. (a)	Portable	1 mark	2
	Easily understood	1 mark	
(b)	Machine code / binary	1 mark	1
(C)	A name/symbol which represents a changeable value in a program	1 mark	1
(d)	Formula	1 mark	1

Qu.	Answer		Marks	MAX
13.	9 – 12 marks	Detailed discussion of the importance of conforming and using security measures responsibly and effectively. There will be few, if any, errors in spelling, grammar and punctuation. Technical terms will be used appropriately and correctly.		12
	5 – 8 marks	Some discussion of importance of conforming and using security measures. There may be occasional errors in spelling, grammar and punctuation. Technical terms will be mainly correct.		
	1 – 4 marks	Superficial coverage – could be a list. Information will be poorly expressed and there will be limited, if any, use of technical terms. There are significant errors in grammar, punctuation and spelling.		
	0 marks	No appropriate content.		
	 Indicative com Examples of p through use of GOOD PRACT Only clayou have competed Seek ou standard area of Think all are writi Always and resp Use ant Use a fit NOT GOOD PF Use a comoto a competed Snoop a competed Copy or 	<pre>tent oints which may be discussed or expanded f suitable examples. ICE im current competence where you can demonstrate e the required expertise, e.g. through recognised encies, qualifications or experience at and observe good practice exemplified by rules, ds, conventions or protocols that are relevant in your specialism oout the social consequences of the program you ng or the system you are designing use a computer in ways that ensure consideration pect for your fellow humans i-virus software and update it regularly rewall to help prevent hacking RACTICE omputer to harm other people. e with other people's computer work around in other people's computer files omputer to steal omputer to bear false witness r use proprietary software for which you have not</pre>		
	paidUse oth	er people's computer resources without		
	authoris	ation or proper compensation		
	Appropr	iate other people's intellectual output		
	 Pass on 	data without permission		
	 Keep date 	ata about people that is incorrect or out-of-date		
		То	otal marks	90



GCSE COMPUTER SCIENCE UNIT 2: Solving Problems Using Computers SPECIMEN PRACTICAL ASSESSMENT

(2 hours)

INSTRUCTIONS TO CANDIDATES

You will need a computer with a functional copy of Greenfoot pre-installed.

Carry out all tasks and make sure that you check your work carefully to ensure that the work you produce is accurate and correct.

It is important that you work independently from other candidates and make sure that what you hand in is your own unaided work.

Save your work regularly.

INFORMATION FOR CANDIDATES

The quality of written communication will be assessed in task 3.

Task 1

[6]

Copy the paragraph below on the left. Then write appropriate HTML code into it so that it will display as the paragraph below on the right on a web page.

For Sale Bluetooth Hands Free Car Kit Make calls without wearing a headset with this Bluetooth v1.2 EDF Multipoint Handsfree Speakerphone! Visit www.edfweb.com to see. Simply pair this device to any Bluetooth enabled phone and talk hands-free today!

For Sale

Bluetooth Hands Free Car Kit

Make calls without wearing a headset with this Bluetooth v1.2 EDF Multipoint Handsfree Speakerphone! Visit <u>www.edfweb.com</u> to see. Simply pair this device to any Bluetooth enabled phone and talk hands-free today!

Task 2

[9]

eTeifi Books sell ebooks via the Internet. A customer is awarded a bonus voucher which they are able to use to save money off a future purchase if they have bought:

• more than ten ebooks

or

• more than five ebooks with a total value of more than £50.00

Write an algorithm with inputs NumbereBooksBought and TotalValueeBooksBought and outputs either "Award bonus" or "Do not award bonus".

For example, with inputs

6 60

The output would be "Award bonus".

Task 3

- (a) Open the Wombats scenario in Greenfoot.
- (b) Populate the world with a wombat and some leaves.
- (c) Check that the scenario is working.
- (d) Edit the program code to make the wombats turn when the left or right cursor (arrow) keys are pressed so they can move back off the edge of the world.
- (e) Add a sound which will play every time a wombat eats a leaf.



- (f) Add a stationary predator to your world which will eat the wombat if they touch and end the game.
- (g) Add a counter to display how many leaves the wombat has eaten.
- (h) Save your completed world as Wombatswjec.

[15]



GCSE COMPUTER SCIENCE

Unit 2: Solving Problems Using Computers

Specimen Assessment Material

Mark Scheme

	Answer		MAX			
Task 1	One mark for	each correct pair in the correct location:	6			
	i.e. <html></html>					
	<pre>><body></body></pre>					
	<h1> <!--</th--><th>/h1>_</th><th></th></h1>	/h1>_				
	<center< th=""><th>r> </th><th></th></center<>	r>				
	 <th></th><th></th>					
	<th></th> <th></th>					
		="url">				
	< > < > < > < > < > < > < > < > < > < >					
	Accept eitner <	$\langle p \rangle < \langle p \rangle$				
	Accept alternat	tive tays e.g. big> instead of <fri></fri> , etc				
	Accept alternative solutions which work.					
	<html> <body></body></html>	,				
	-					
	<h1><center></center></h1>	For Sale				
	Blueto	ooth Hands Free Car Kit				
	Answer alls	without wearing a headset with this Bluetooth v1 2 EDF				
	Multipoint Han	ds-free Speakerphone! Visit <a< th=""><th></th></a<>				
	href="http://ww	w.edfweb.com/"> www.edfweb.com to see. <i>Simply</i>				
	pair this device	e to any Bluetooth enabled phone and talk hands-free today!				
	<th> ></th> <th></th>	>				
Task 2	1 input Nur	mbereBooksBought (1 mark)	9			
	2 input Tot	alValueeBooksBought (1 mark)	-			
	3 if (Numb	pereBooksBought >10) (1 mark)				
	OR	(1 mark)				
	((Numbe	reBooksBought > 5) (1 mark)				
	AND	(1 mark)				
	(TotalVal	ueeBooksBought > 50))) (1 mark)				
	4 then outp	but "Award bonus" (1 mark)				
	5 else outp	out "Do not award bonus" (1 mark)				
	Line numbers i	not necessary				
	Ignore indentat	tion or lack of it				
	Accept alternat	tive solutions				
Task 3	11-15 marks	The candidate has produced a complete working solution to	15			
		the task. The program is written efficiently and has been				
		compiled. Wombats turn left and right on key press and a				
		sound is played when a leaf is eaten. A predator eats the				
		wombat when they touch, ending the game and displaying a				
		technical terms have been used correctly, the meaning is				
		clear and there are no errors in spelling and punctuation				
	6-10 marks	The candidate has produced a working solution. The program				
		has been compiled but one of the elements is missing or				
		incomplete. Technical terms have been used correctly, the				
		meaning is clear and there are few errors in spelling and				
		punctuation.				
	1-5 marks	The candidate has produced a partial solution to the task but]			
		there is some evidence of functionality. Technical terms,				
		where used, are correct, but there are significant errors in				
		spelling and punctuation.				
	0 marks	No valid response				
		Total marks	30			



GCSE

COMPUTER SCIENCE UNIT 3: Developing Computing Solutions SPECIMEN CONTROLLED ASSESSMENT (15 hours)

INSTRUCTIONS TO CANDIDATES

This is one of two scenarios available. Each scenario is available separately. You may choose either of the two scenarios. You will have 15 hours to complete your chosen task. Research tasks can be carried out outside timed conditions.

Read the scenario carefully to make sure that you understand what is needed.

It is important that you work independently from other candidates and make sure that what you hand in is your own unaided work.

Your report should be about 2,000 words.

Make sure that you check your work carefully to ensure that the work you produce is accurate and correct.

Save your work regularly.

INFORMATION FOR CANDIDATES

Teachers and candidates will be required to sign a declaration that all work presented is the work of the candidate alone. Failure to authenticate the work may result in grades being delayed or refused.

The quality of written communication will be assessed in your evaluation.

Scenario One

Number game application

A teacher at your school has asked you to write an application to update a number game, similar to bingo, which she uses to support learning in mathematics lessons.

The teacher has a bag containing counters numbered from 1 to 90. She draws the counters randomly and asks the pupils questions linked to the number which appears on the counter. For example, if number 63 is drawn, the question might be "What number do you get if you multiply 7 by 9?".

Each pupil has a card with a different selection of 20 numbers arranged in a grid. Pupils circle the numbers on their cards in response to the questions asked by the teacher. The winner is the first pupil to circle all the numbers on the card.

The teacher keeps a record of the answers by placing the counters she has drawn from the bag on a sheet of squared paper, so that she can check details when a pupil claims to have won.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90

Your task is to write an application to generate random numbers and to keep a record of those numbers. Your application will replace the bag of numbered counters: the record of generated numbers will enable the teacher to check the winning card.

Produce a report fully documenting your solution to automating this process. Credit will be given for the quality of your solution. Your report should be about 2,000 words.

GUIDANCE FOR CANDIDATES

Your work for this assignment will be marked against the following assessment scheme.

Criteria	Marks
Design of solution	8 marks
Implementation	17 marks
Program documentation	5 marks
Testing	8 marks
Evaluation	12 marks



GCSE COMPUTER SCIENCE

Unit 3: Developing Computing Solutions

Specimen Assessment Material

Mark Scheme

Unit 3 - Controlled Assessment - Mark Scheme

Quality of Written Communication

The quality of written communication is assessed as an integral part of the candidate evaluation and not as a standalone element, using the following specific criteria:

- legibility of text, accuracy of spelling, punctuation and grammar, clarity of meaning
- selection of a form and style of writing appropriate to purpose and to complexity of subject matter
- organisation of information clearly and coherently, use of specialist vocabulary where appropriate

Mark Gr	id
Design o	of Solution Max 8 marks
7 - 8 marks	The candidate has provided a detailed analysis of the task and a comprehensive description fully justifying their intended solution in terms of the programming facilities of the language software chosen. The pseudocode (or flow chart) is well annotated, showing a thorough understanding. The candidate has produced a complete suite of algorithms covering the whole solution as well as any validation required. There is a comprehensive testing strategy and evaluation criteria that will allow the performance of the completed system to be measured. The design demonstrates a clear sense of audience and purpose.
4 - 6 marks	The candidate has provided a brief analysis of the task and a basic description identifying a sufficient number of processes to provide a working solution to the given task. The pseudocode (or flow chart) is annotated, showing some understanding. The candidate has produced basic algorithms covering most of their solution and some evidence of discussion of any validation required. The candidate has devised a strategy allowing them to test most of the functionality and evaluate their completed solution. The design demonstrates some sense of audience and purpose.
1 – 3 marks	The candidate has produced a minimal solution and has briefly described some tasks but the outline of the solution is not specific for all parts of the solution. There is some evidence of use of pseudocode (or flow chart) although annotation may be absent. Some basic algorithms may be evident for part of the solution. The candidate has made brief comments on how the solution may be tested but has not referred to success criteria and the solution may be incomplete.
0 marks	No valid response.
Impleme	entation Max 17 marks
14 - 17 marks	The candidate has produced a fully functioning solution to the given task. They have fully exploited, as appropriate, the facilities of the chosen programming language and have demonstrated a sound understanding of the appropriate techniques available to them.
9 - 13 marks	The candidate has produced a functional solution to the given task. They have used, as appropriate, the facilities of the chosen programming language and have demonstrated an understanding of the tools and techniques used.
5 - 8 marks	The candidate has produced a solution to the given task that provides the majority of the required functionality. The candidate has used a range of the facilities of the programming language and has demonstrated some understanding of the tools and techniques used.
1 - 4 marks	The candidate has produced a partial solution to the given task. They have made some use of the facilities of the programming language, demonstrating a limited understanding of the tools and techniques used.
0 marks	No valid response.

Progran	n Documentation	Max 5 marks
5 marks	The candidate has fully documented a solution and used appropriate self-docu identifiers. Listings of each programming routine are appropriately laid out and sufficient annotation to demonstrate a sound understanding of the programmir The user interface is fit for audience and purpose.	imenting contain ng code used.
3 - 4 marks	The candidate has documented a solution with listings of all major programmir some evidence of use of self-documenting code and annotation, demonstrating understanding of the programming code used. The user interface is fit for audi purpose.	ng routines with g some ence and
1 - 2 marks	The candidate has produced some listings of the programming routines used a evidence of self-documenting code or annotation.	out there is little
0 marks	No valid response.	
Testing		Max 8 marks
6 - 8 marks	The test plan covers all the success criteria and the candidate has included ex of thorough testing of the completed solution with an informed commentary of process.	tensive evidence the testing
3 - 5 marks	The test plan covers most of the success criteria and the candidate has include thorough testing of the completed solution and included commentaries describ process.	ed evidence of ing the testing
1 - 2 marks	The candidate has included brief evidence of some testing but the solution ma	y be incomplete.
0 marks	No valid response.	
Evaluati	on including Quality of Written Communication	Max 12 marks
10 - 12 marks	The candidate has produced an informed discussion of the performance of the solution against the evaluation criteria. The candidate is able to make valid and suggestions for further improvements. The text is legible, information is organist coherently with correct use of specialist vocabulary where appropriate and me Spelling, punctuation and grammar are accurate. The form and style of writing purpose and to the complexity of the subject matter.	e completed d detailed sed clearly and aning is clear. is appropriate to
7 - 9 marks	The candidate has produced a discussion of the performance of the solution a evaluation criteria and has made some valid suggestions for further improvem solution. The text is legible, information is organised clearly with correct use of vocabulary where appropriate and meaning is clear. Spelling, punctuation and accurate. The form and style of writing is appropriate to purpose and the subje	gainst the ents to the specialist grammar are ct matter.
4 - 6 marks	There is some discussion of the performance of the solution measured against criteria. The candidate is able to make some suggestions for further improvem solution. The text is legible and specialist vocabulary, where used, is appropria be errors in spelling, punctuation and grammar.	t the evaluation ents to the ate. There may
1 - 3 marks	The evaluation is superficial. Comments lack clarity and are expressed in ever Suggestions for improvements are limited or absent. There are significant erro punctuation and grammar.	yday language. rs in spelling,
0 marks	No valid response	
		Total 50 marks

	Assessment Objectives Raw Marks				
Unit 1	AO1	AO2	AO3	Total Raw Mark	QWC
1	4			4	
2	8			8	
3	4			4	
4	6			6	
5	6		2	8	
6		4	4	8	
7	8			8	
8		5		5	
9	4			4	
10	2	1		3	
11	7	8		15	
12	5			5	
13			12	12	\checkmark
Total Marks	54	18	18	90	

GCSE COMPUTER SCIENCE ASSESSMENT GRID

Unit 2	AO1	AO2	AO3	Total Raw Mark	QWC
Task 1	6			6	
Task 2		9		9	
Task 3		10	5	15	\checkmark
Total Marks	6	19	5	30	

Unit 3	AO1	AO2	AO3	Total Raw Mark	QWC
Design		2	6	8	
Implementation		17		17	
Program Documentation	4	1		5	
Testing		4	4	8	
Evaluation			12	12	\checkmark
Total Marks	4	24	22	50	

GCSE Computer Science Linear SAMs for teaching from 2012/ED 8 April 2013