

Mark Scheme (Results) Summer 2008

GCE

GCE Applied ICT (6953/01)

General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.

Applied GCE ICT Unit 3 – Mark Scheme – June 2008

Activity	ANSWER	POSS. MARK	MAX
Activity 1	Understanding the problem		
	Any 7 of		
A1	Working as <u>IT Specialist</u> for <u>GBBC</u>	1	
A2	Build Houses	1	
A3	Fuel Saving devices/Energy saving feature/green feature	1	
A4	Tewkesbury Development	1	
A5	Carbon Footprint max 1000 tonnes per year	1	
A6	Maximum 200 each type	1	
A7	5 types of houses(named OK)	1	
A8	Max Cost of development £95,000,000	1	
A9	Area of development 100000m ²	1	
A10	Survey of other developments for sales data	1	
A11	Survey from three other developments	1	
A12	200 house owners surveyed for EACH development	1	
A13	Max 5 solar panels	1	
A14	Need to make a profit	1	
			7
B1	Number of each house type	1	
B2	Profit <u>margins</u> (not amount of profit)	1	
B3	Allocation of <u>fuel saving</u> features (energy saving, eco friendly)	1	
			3
	<i>Any 3 of:</i>		
C1	Costs of raw materials same	1	
C2	Carbon footprint data accurate	1	
C3	Costs of fuel saving aspects accurate	1	
C4	Housing needed in Tewkesbury area.	1	
C5	Demography (Demand for this housing)	1	
C6	Style of housing appropriate for Tewkesbury	1	
C7	Competition in the area	1	
C8	Estate Agents/Hips/Stamp duty/solicitors/search fees	1	
C9	Flood barriers etc (Tewkesbury)	1	
C10	People may avoid Tewkesbury because of flood	1	
C11	Clearance costs/ Is it fit to build on	1	
C12	Noise/visual pollution (Wind turbines)	1	
C13	House price trends remain same (prices remain constant)	1	
C14	Workforce cost included	1	
C15	Anything sensible (just 1)	1	
			3
	Total Marks for Activity 1		13

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Activity	ANSWER	POSS. MARK	MAX
Activity 2	Sources of Information Comment on accuracy or inaccuracy must be qualified		
	Any 8 of:		
A1	Survey of other sites (not Tewkesbury)	1	
A2	Three different areas (names allowed)	1	
A3	Live in Similar or identical housing	1	
A4	And therefore have the same requirements of the house as the target market.	1	
A5	Average is not reliable/ range	1	
A6	Sales patterns can change	1	
A7	Size of sample same as maximum	1	
A8	How long after house purchase	1	
A9	Age distribution	1	
A10	People may not answer truthfully (exaggerate because they are selling)	1	
A11	May not take survey seriously (say any old rubbish)	1	
A12	Knowledge of local housing market (how informed is the respondent)	1	
			8
	Any 7 of		
	Factors related to		
B1	Different House prices/demand in different areas	1	
B2	May be slight changes in design which make more or less popular	1	
B3	Not as nice an area as others (or vice versa)	1	
B4	Proportion of each house type may be different making estate more or less desirable	1	
B5	Employment in the area/Demography similar	1	
B6	Public Transport similar	1	
B7	Roads similar	1	
B8	Public facilities (Parks) similar	1	
B9	Fuel requirements of occupants similar	1	
B10	Nearness to shops similar	1	
B11	Commute to big city (makes some areas more popular) similar	1	
B12	Current awareness of global issues (time)	1	
B13	Any other valid question	1	
			7
	Total Marks for Activity 2		15

Activity 3		Computer Modelling		
		For formula marks all of formula must be visible		
		Importing Data		
	A1	New worksheet created	1	
	A2	Data imported correctly (0,200,176000,0), (A-F) (1-42)	1	
	A3	All shown, 1 sheet of A4, readable (A-F) (1-42)	1	
	A4	Printout exists and complies with Standard ways of working (Row, column headers, Gridlines, Header and/or Footer – Do not award for screenshots)	1	
				4
		Sales Data		
	B1	A3 contains formula which transfers data from new worksheet (=Sheetname!A1)	1	
	B2	Formula replicated correctly across (A-F)	1	
	B3	Formula replicated correctly down (Row 43)	1	
	B4	Correct columns printed (A-F) Must have column headers	1	
	B5	Printout conforms to Standard ways of working (Row, column headers, Gridlines, Header and/or Footer – Do not award for screenshots)	1	
				5
		Costs		
	C1	Value for Solar panel £500	1	
	C2	Value for others £6000	1	
	C3	Correct rows and columns printed (A-B) (2-6) Need Headings	1	
	C4	Printout Conforms to standard ways of working. (Row, column headers, Gridlines, Header and/or Footer – Do not award for screenshots)	1	
				4
		House Costs		
	D1	Working Formula in I8 (=Sum(I3:I7))	1	
	D2	Working Formula in J8 (=Sum(J3:J7))	1	
	D3	Sum function used	1	
	D4	Correct row and columns printed (F-J) (8)	1	
	D5	Printout conforms to standard ways of working (Row, column headers, Gridlines, Header and/or Footer – Do not award for screenshots)	1	
				5
		House Types		
		Calculation Page (Formulae)		
	E1	Correct formula in B11 (=House Costs!J8)	1	
	E2	Correct formula in B12 (=House Costs!I8)	1	
	E3	Correct rows and columns printed (A-B) (9-13)	1	
	E4	Printout conforms to standard ways of working (Row, column headers, Gridlines, Header and/or Footer – Do not award for screenshots)	1	
				4

		Calculation Page (Data)		
F1		Development Area (B9) < 100000 m ²	1	
F2		Development area between 99000 and 100000	1	
F3		Carbon Footprint (B10) < 1000	1	
F4		Carbon footprint < 900	1	
F5		Profit made	1	
F6		Profit > £1000000	1	
F7		Profit > £3000000	1	
F8		Profit > £6000000	1	
F9		All aspects used at least once	1	
F10		All Houses used	1	
F11		All houses have at least 1 green device	1	
F12		All houses have at least 3 green devices	1	
F13		Conforms to standard ways of working (Row, column headers, Gridlines, Header and/or Footer – Do not award for screenshots)	1	
				13
		Total Marks for Activity 3		35

Activity 4		Recommendations		
	A1	Chosen number for each house stated	1	
	A2	Fuel saving devices stated	1	
	A3	Margin for each type stated	1	
	A4	Reasons for choice given (reasonable <u>profit</u> or reasonable fuel savings)	1	
	A5	Profit & Carbon footprint linked	1	
				5
		Other Factors		
		Any 3 of		
			1	
	B1	Low fuel bills may mean more would be sold	1	
	B2	Green promotion may effect how much someone would pay	1	
	B3	Materials (e.g. might be cheaper elsewhere)	1	
	B4	Build amenities	1	
	B5	Play areas for kids	1	
	B6	Local competition	1	
	B7	Labour Costs	1	
	B8	Difficult getting mortgage (Credit Crunch)	1	
	B9	Fear factor (Tewkesbury Flood)	1	
	B10	House prices are falling	1	
	B11	Government stipulation of affordable house	1	
	B	Any other relevant factor	1	
				3
		Graphical Representation of Data		
	C1	Graph included	1	
	C2	Graph fit for purpose	1	
	C3	Graph show information relevant to report	1	
	C4	Either Accompanying text partially explains Graph	1	
	C5	Or Accompanying text fully explains graph	2	
				5
		Suitability for Audience		
	D1	Spelling & Grammar Correct Min 12 lines	1	
	D2	Language suitable for audience Min 12 lines	1	
	D3	Choice of font suitable	1	
	D4	Professional report layout (Intro, Conc, date, at least 2 other sections, suit font colour & size, suitable use of tools)	1	
		Plus any 1 of		
	D5	Concluding Statement	1	
	D6	Headings consistent must have three	1	
	D7	Suitable report title (Who it is to, what it is about and the report)	1	
	D8	Charts labelled (Title, Both axes, units both axes)	1	
				5
		Total Marks for Activity 4		18

Activity 5		Evaluation		
	A1	Comment on ease of use of model with qualification	1	
	A2	Statement to the effect that it has helped provide a solution	1	
	A3	Comment on accuracy of any data	1	
				3
		Max 4 marks		
	B1	Recommendations for improvement of the model	1	
	B2	Recommendations for improvement of the model with any explanation	2	
	B3	Recommendations for improvement of the model with any explanation with data and source	4	
				4
		Total Marks for Activity 5		7
SWW				
		Authenticating Work (All WP pages have task number, Name, centre number).	1	
		Appropriate Structure (Pages in correct order & Folder assembled correctly)	1	
		Total for SWW		2
		Total for Paper		90