

# GCE AS

**Applied Information and  
Communication Technology**

## Summer 2009

# Mark Scheme

Issued: October 2009



MARK SCHEMES (2009)

Foreword

*Introduction*

Mark Schemes are published to assist teachers and students in their preparation for examinations. Through the mark schemes teachers and students will be able to see what examiners are looking for in response to questions and exactly where the marks have been awarded. The publishing of the mark schemes may help to show that examiners are not concerned about finding out what a student does not know but rather with rewarding students for what they do know.

*The Purpose of Mark Schemes*

Examination papers are set and revised by teams of examiners and revisers appointed by the Council. The teams of examiners and revisers include experienced teachers who are familiar with the level and standards expected of 16- and 18-year-old students in schools and colleges. The job of the examiners is to set the questions and the mark schemes; and the job of the revisers is to review the questions and mark schemes commenting on a large range of issues about which they must be satisfied before the question papers and mark schemes are finalised.

The questions and the mark schemes are developed in association with each other so that the issues of differentiation and positive achievement can be addressed right from the start. Mark schemes therefore are regarded as a part of an integral process which begins with the setting of questions and ends with the marking of the examination.

The main purpose of the mark scheme is to provide a uniform basis for the marking process so that all the markers are following exactly the same instructions and making the same judgements in so far as this is possible. Before marking begins a standardising meeting is held where all the markers are briefed using the mark scheme and samples of the students' work in the form of scripts. Consideration is also given at this stage to any comments on the operational papers received from teachers and their organisations. During this meeting, and up to and including the end of the marking, there is provision for amendments to be made to the mark scheme. What is published represents this final form of the mark scheme.

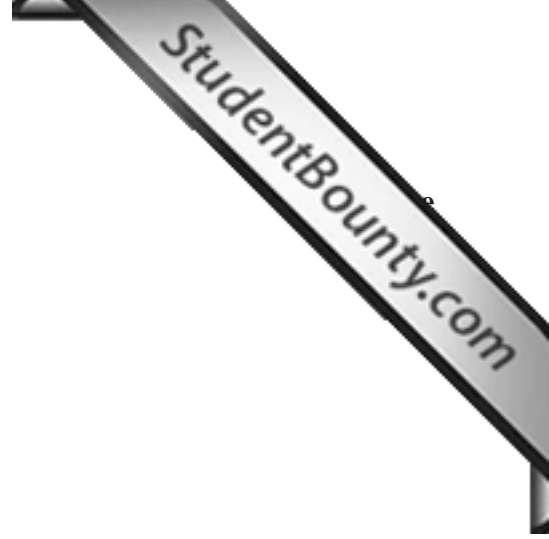
It is important to recognise that in some cases there may well be other correct responses which are equally acceptable to those published: the mark scheme can only cover those responses which emerged in the examination. There may also be instances where certain judgements may have to be left to the experience of the examiner, for example, where there is no absolute correct response – all teachers will be familiar with making such judgements.

The Council hopes that the mark schemes will be viewed and used in a constructive way as a further support to the teaching and learning processes.



# CONTENTS

AS 2: Module 2







*Rewarding Learning*

**ADVANCED SUBSIDIARY (AS)**

**General Certificate of Education**

**2009**

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**Applied Information and  
Communication Technology**

**Assessment Unit AS 2**

*assessing*

**Unit 2: Software Applications and Tools**

**[A3J21]**

**MONDAY 18 MAY – FRIDAY 22 MAY**

---

**MARK  
SCHEME**

### DB1 STAFFDESIGN

- Correct field name – No of Hours
- Correct data type – number
- Correct size – byte

- [1]
- [1]
- [1]

### TOTAL DB1 [3]

STAFF : Table		
	Field Name	Data Type
✓	Staff No	AutoNumber
	Staff First Name	Text
	Staff Last Name	Text
	Staff Home Tel No	Text
	Group ID	Text
▶	No of Hours	Number

General	Lookup
Field Size	Byte
Format	
Decimal Places	Auto
Input Mask	
Caution	

### DB2 VALIDATION

- Validation rule
- Validation text (not case sensitive)

- [1]
- [1]

### TOTAL DB2 [2]

General	Lookup
Field Size	Byte
Format	
Decimal Places	Auto
Input Mask	
Caption	
Default Value	0
Validation Rule	>=8 And <=36
Validation Text	NOT ALLOWED ON CONTRACT
Required	No
Indexed	No
Smart Tags	

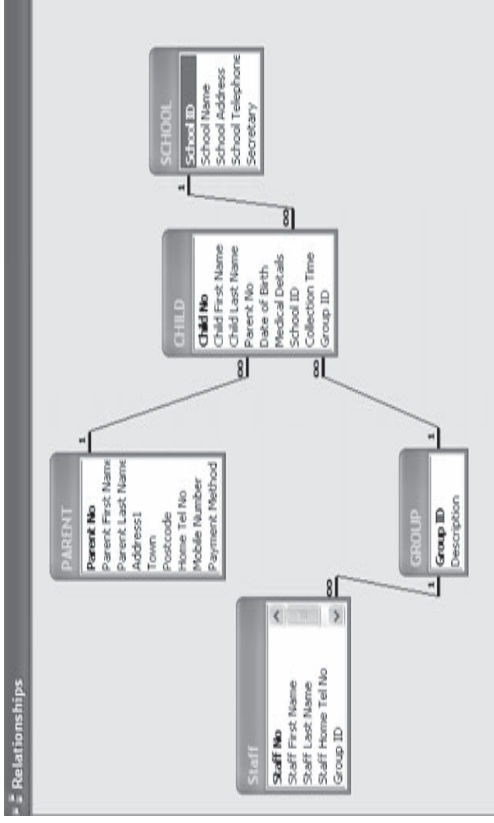


## DB3 RELATIONSHIPS

Correct relationship with referential integrity  
(any relationship between SCHOOL and CHILD)

[2]  
[1]

**TOTAL DB3 [2]**

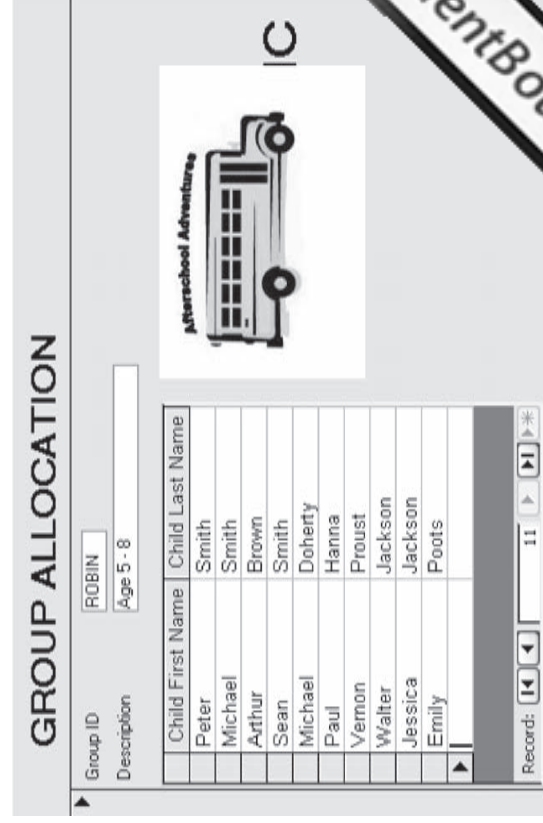


## DB4 ROBIN

Form created  
Title (not case sensitive)  
Graphic  
Fields from GROUP table  
Fields from CHILD table  
ROBIN group displayed  
10 records visible  
Field names fully visible

[1]  
[1]  
[1]  
[1]  
[1]  
[1]  
[1]  
[1]

**TOTAL DB4 [8]**

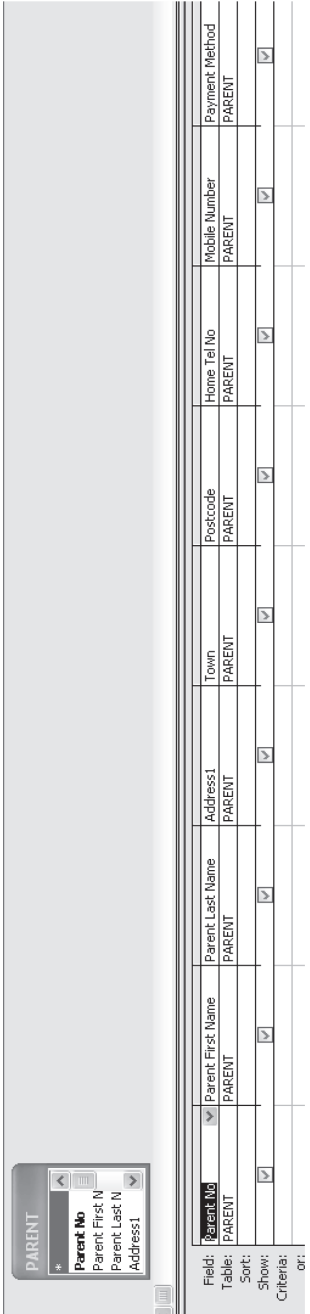


**DB5 EXPORTDESIGN**

Correct fields  
(At least 6 fields shown)

[1]

**TOTAL DB5** [1]

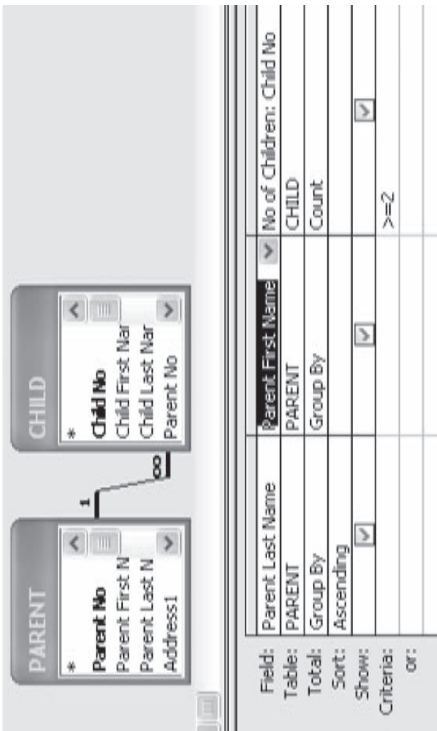


**DB6 FAMILYDESIGN**

Correct fields from CHILD  
Correct fields from PARENT  
Sorting  
Group by used  
Count applied to field from CHILD table  
(any face acceptable)  
Criteria >=2

[1]  
[1]  
[1]  
[1]  
[1]  
[1]  
[1]

**TOTAL DB6** [6]



**DB7 GROUPS**

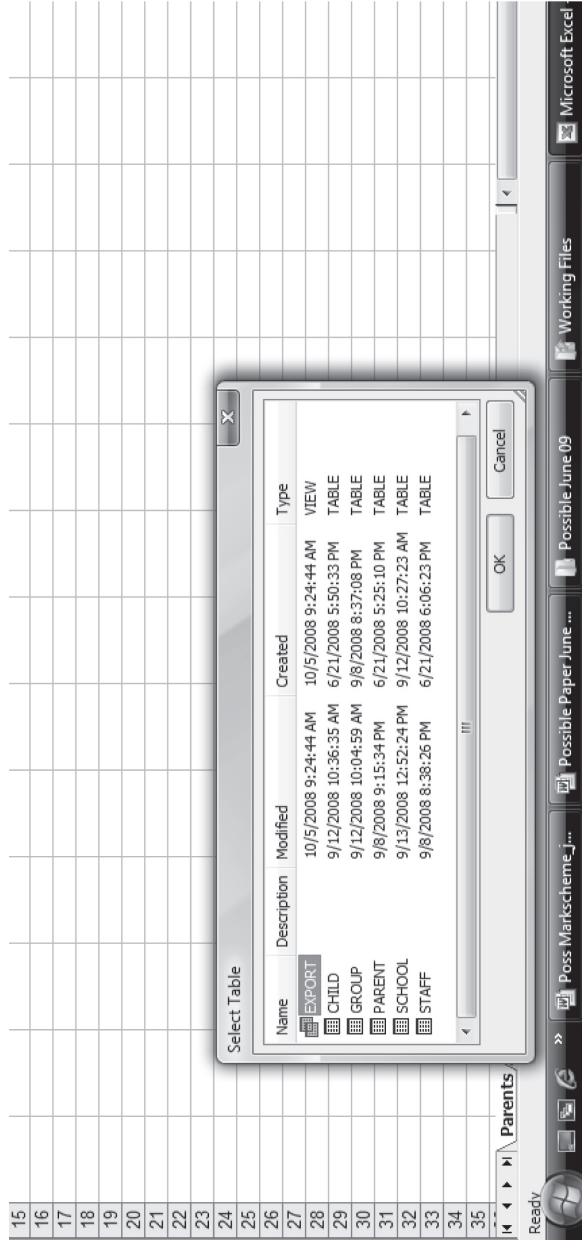
- Correct fields from SCHOOL [1]
- Correct fields from CHILD [1]
- Correct title [1]
- Grouping [2]
- (lose 1 for incorrect grouping) [1]
- Alphabetical order [1]
- New label added for No of Children [1]
- No of children calculated [1]
- Extra labels removed [1]
- Formatting [1]
- Only page 1 printed [1]

**TOTAL DB7 [11]****Total marks for database task DB1:DB7 [33]****SCHOOL COLLECTION DETAILS**

<i>St Peter's Primary</i>			
<i>12 Clooney Road</i>			
<i>Secretary: Eileen Smith</i>		<i>076 234 6789</i>	
<b>14:00</b>	Hanna	Paul	
	Jackson	Jessica	
	Smith	Michael	
			<b>Number of Children: 3</b>
<b>15:00</b>	Proust	Vernon	
	Smith	Peter	
			<b>Number of Children: 2</b>
<i>Glen Road School</i>			
<i>Upper Glen Road</i>			
<i>Secretary: Angela Black</i>		<i>073 234 5678</i>	
<b>14:00</b>	Brown	Arthur	
			<b>Number of Children: 1</b>
<b>15:00</b>	Allen	Jane	
	Brown	Sonia	
	Brown	Vivian	
	Doherty	Michael	
			<b>Number of Children: 4</b>

**SS1 IMPORTMETHOD**

- New sheet [1]
- Renamed Parents [1]
- Appropriate method [1]



**SS1 PARENTS**

- Correct data imported [1]
- Landscape [1]
- Gridlines [1]
- Row and Column headings [1]
- Appropriate heading [1]

Appropriate heading

A	B	C	D	E	F	G	H	I
Parent No	Parent First Name	Parent Last Name	Address1	Town	Postcode	Home Tel No	Mobile Number	Payment Method
1	John	Smith	3 The Oak Road	Omagh	BT999JU	(02877)123456	(07719)121212	DAILY
2	Petra	Poots	75 Grange Street	Omagh	BT992OA	(02873)234123	(07815)321365	DAILY
3	Martha	Allen	1 The Elms	Omagh	BT991WW	(02567)541234	(07889)452133	WEEKLY
4	Martin	Aldridge	55 Lough Road	Omagh	BT991OE	(02345)122890	(07989)231566	WEEKLY
5	James	Brown	The Grange	Omagh	BT999RR	(04523)765234	(06777)444233	MONTHLY
6	Olynn	Smith	Rose Cottage	Omagh	BT992JN	(09654)323454	(07787)982342	MONTHLY
7	Michael	Doherty	5 Oakley Avenue	Omagh	BT993SE	(05634)567233	(07778)874234	MONTHLY
8	Jonathan	Creaton	77 Gilmore Alley	Omagh	BT996AS	(08662)452199	(07782)453423	DAILY
9	Mary	Hanna	12 Home Avenue	Omagh	BT994OQ	(02765)236611	(07896)453772	WEEKLY
10	Vera	Proust	14 Abbey Street	Omagh	BT993WW	(02345)677812	(07689)512663	WEEKLY
11	Trevor	Jackson	16 Burten Lane	Omagh	BT993XZ	(03456)100788	(07869)423188	MONTHLY
12								
13								
14								

**TOTAL SS1s [8]**

**SS2 COPIEDDATA**

[1]

Correct data entered on row 1  
 (Minor data errors lose 1 mark)  
 (Formula bar must show April!AE8)

[1]

= April !AES  
 Currency

[1]

**TOTAL SS2 [3]**

	A	B	C	D	E	F	G	H
1	Child No	Child Firs	Child Last	Total Charges	Discount	Final Charges		
2	1	Peter	Smith	£104.00				
3	2	Michael	Smith	£96.00				
4	3	Jane	Allen	£96.00				
5	4	Tracy	Poots	£96.00				
6	5	Martin	Aldridge	£96.00				
7	6	Jade	Aldridge	£96.00				
8	7	Joyce	Brown	£110.00				
9	8	Sonia	Brown	£110.00				
10	9	Vivian	Brown	£110.00				
11	10	Arthur	Brown	£110.00				
12	11	Olivia	Smith	£110.00				
13	12	Sean	Smith	£110.00				
14	13	Michael	Doherty	£110.00				
15	14	Maxine	Creaton	£110.00				
16	15	Edward	Hanna	£110.00				
17	16	Paul	Hanna	£110.00				
18	17	Vernon	Proust	£110.00				
19	18	Walter	Jackson	£110.00				
20	19	Jessica	Jackson	£90.00				
21	20	Emily	Poots	£110.00				
22								

**SS3 SUBTOTAL 1**

Subtotal for each family [1]

SUBTOTAL function showing [1]

Correct total for each family [1]

**TOTAL SS3 [3]**

	A	B	C	D	E	F
	Child No	Child First Name	Child Last Name	Total charges	Discount	Final Charge
1						
2	1	Peter	Smith	£104.00		
3	2	Michael	Smith	£96.00		
4			<b>Smith Total</b>	£200.00		
5	3	Jane	Allen	£96.00		
6			<b>Allen Total</b>	£96.00		
7	4	Tracy	Poots	£96.00		
8			<b>Poots Total</b>	£96.00		
9	5	Martin	Aldridge	£96.00		
10	6	Jade	Aldridge	£96.00		
11			<b>Aldridge Total</b>	£192.00		
12	7	Joyce	Brown	£110.00		
13	8	Sonia	Brown	£110.00		
14	9	Vivian	Brown	£110.00		
15	10	Arthur	Brown	£110.00		
16			<b>Brown Total</b>	£440.00		
17	11	Olivia	Smith	£110.00		
18	12	Sean	Smith	£110.00		
19			<b>Smith Total</b>	£220.00		
20	13	Michael	Doherty	£110.00		
21			<b>Doherty Total</b>	£110.00		
22	14	Maxine	Creaton	£110.00		
23			<b>Creaton Total</b>	£110.00		
24	15	Edward	Hanna	£110.00		
25	16	Paul	Hanna	£110.00		
26			<b>Hanna Total</b>	£220.00		
27	17	Vernon	Proust	£110.00		
28			<b>Proust Total</b>	£110.00		
29	18	Walter	Jackson	£110.00		
30	19	Jessica	Jackson	£90.00		
31			<b>Jackson Total</b>	£200.00		
32	20	Emily	Poots	£110.00		
33			<b>Poots Total</b>	£110.00		
34			<b>Grand Total</b>	£2,104.00		

## SS4 SUBTOTAL 2

- Subtotal for each family [1]
- Both SUBTOTAL functions showing [1]
- Correct total for each family [1]
- Appropriate Zoom used [1]

## TOTAL SS4 [4]

	A	B	C	D	E	F
1	Child Mc	Child First Name	Child Last Name	Total charge	Discount	Final Charge
2	1	Peter	Smith	£104.00		
3	2	Michael	Smith	£96.00		
4			<b>Smith Count</b>		2	
5			<b>Smith Total</b>	£200.00		
6	3	Jane	Allen	£96.00		
7			<b>Allen Count</b>		1	
8			<b>Allen Total</b>	£96.00		
9	4	Tracey	Poots	£96.00		
10			<b>Poots Count</b>		1	
11			<b>Poots Total</b>	£96.00		
12	5	Martin	Aldridge	£96.00		
13	6	Jade	Aldridge	£96.00		
14			<b>Aldridge Count</b>		2	
15			<b>Aldridge Total</b>	£192.00		
16	7	Joyce	Brown	£100.00		
17	8	Sophia	Brown	£100.00		
18	9	Yohan	Brown	£100.00		
19	10	Arthur	Brown	£100.00		
20			<b>Brown Count</b>		4	
21			<b>Brown Total</b>	£440.00		
22	11	Olivia	Smith	£100.00		
23	12	Sean	Smith	£100.00		
24			<b>Smith Count</b>		2	
25			<b>Smith Total</b>	£220.00		
26	13	Michael	Doherty	£100.00		
27			<b>Doherty Count</b>		1	
28			<b>Doherty Total</b>	£100.00		
29	14	Mairine	Creaton	£100.00		
30			<b>Creaton Count</b>		1	
31			<b>Creaton Total</b>	£100.00		
32	15	Edward	Hanna	£100.00		
33	16	Paul	Hanna	£100.00		
34			<b>Hanna Count</b>		2	
35			<b>Hanna Total</b>	£220.00		
36	17	Vernon	Proust	£100.00		
37			<b>Proust Count</b>		1	
38			<b>Proust Total</b>	£100.00		
39	18	Walter	Jackson	£100.00		
40	19	Jessica	Jackson	£90.00		
41			<b>Jackson Count</b>		2	
42			<b>Jackson Total</b>	£200.00		
43	20	Emily	Poots	£100.00		
44			<b>Poots Count</b>		1	
45			<b>Poots Total</b>	£100.00		
46			<b>Grand Count</b>		20	
47			<b>Grand Total</b>	£2,104.00		
48						
49						
50						



## SS5 DISCOUNT

Correct percentages shown in column E [2]

(lose 1 mark if unnecessary zeros shown in column E or Discount is shown as a decimal)

=IF [1]

D4>1 [3]

D4\*5% [4]

0 [1]

**TOTAL SS5 [11]**

A	B	C	D	E	F
Child No	Child First Name	Child Last Name	Total charge	Discount	Final Charge
1	Peter	Smith	£104.00		
2	Michael	Smith	£96.00		
3		Smith	£96.00		
4		Smith Count			
5		Smith Total	£200.00	10%	
6	Jane	Allen	£96.00		
7		Allen	£96.00		
8		Allen Total	£96.00	0%	
9	Tracy	Poots	£96.00		
10		Poots	£96.00		
11		Poots Total	£96.00	0%	
12	Martin	Aldridge	£96.00		
13	Jade	Aldridge	£96.00		
14		Aldridge	£96.00		
15		Aldridge Count			
16	Joyce	Aldridge Total	£192.00	10%	
17	Sonia	Brown	£100.00		
18	Violan	Brown	£100.00		
19	Arthur	Brown	£100.00		
20		Brown	£100.00		
21		Brown Count			
22	Olivia	Brown Total	£400.00	20%	
23	Sean	Smith	£100.00		
24		Smith	£100.00		
25		Smith Count			
26		Smith Total	£220.00	10%	
27	Michael	Doherty	£100.00		
28		Doherty	£100.00		
29		Doherty Total	£100.00	0%	
30	Maeline	Greston	£100.00		
31		Greston	£100.00		
32	Edward	Greston	£100.00		
33	Paul	Greston	£100.00		
34		Greston Total			
35		Hanna	£100.00		
36		Hanna	£100.00		
37		Hanna Count			
38		Hanna Total	£220.00	10%	
39	Vernon	Proust	£100.00		
40		Proust	£100.00		
41		Proust Count			
42		Proust Total	£100.00	0%	
43	Walter	Jackson	£100.00		
44	Jessica	Jackson	£90.00		
45		Jackson	£90.00		
46		Jackson Count			
47		Jackson Total	£200.00	10%	
48	Emily	Poots	£100.00		
49		Poots	£100.00		
		Poots Count			
		Poots Total	£100.00	0%	
		Grand Count	£2,104.00		
		Grand Total	£2,104.00		



**SS6 FINALCHARGE**

Correct formula

- D5 [1]
- D5 [2]
- \*E5 [2]

**TOTAL SS6 [5]**

**Total marks for spreadsheet tasks SS1:SS6 [34]**

**or**

- D4 [1]
- D4 [2]
- \*E5 [2]

Child No	Child First Name	Child Last Name	Total charge	Discount	Final Charge
1	Peter	Smith	£104.00		
2	Michael	Smith	£96.00		
3		Smith Count	£96.00		
4		Smith Total	£200.00	2	£180.00
5	Jane	Allen	£96.00		
6		Allen Count	£96.00	1	
7		Allen Total	£96.00		
8		Poots Count	£96.00		
9	Tracy	Poots	£96.00		
10		Poots Total	£96.00	1	
11		Poots Count	£96.00		
12	Martin	Poots	£96.00		
13	Jade	Aldridge	£96.00		
14		Aldridge Count	£96.00	2	
15		Aldridge Total	£192.00		
16	Joyce	Brown	£100.00		
17	Scott	Brown	£100.00		
18	Violan	Brown	£100.00		
19	Arthur	Brown	£100.00		
20		Brown Count	£400.00	4	
21		Brown Total	£440.00		
22	Olivia	Smith	£100.00		
23	Sean	Smith	£100.00		
24		Smith Count	£220.00	2	
25		Smith Total	£220.00		
26	Michael	Doherty	£100.00		
27		Doherty Count	£100.00	1	
28		Doherty Total	£100.00		
29		Creation Count	£100.00		
30		Creation Total	£100.00	1	
31		Creation Count	£100.00		
32	Edward	Hanna	£100.00		
33	Paul	Hanna	£100.00		
34		Hanna Count	£220.00	2	
35		Hanna Total	£220.00		
36		Proust Count	£100.00		
37	Vernon	Proust	£100.00		
38		Proust Total	£100.00	1	
39	Walter	Jackson	£100.00		
40	Jessica	Jackson	£30.00		
41		Jackson Count	£200.00	2	
42		Jackson Total	£200.00		
43	Emily	Poots	£100.00		
44		Poots Count	£100.00	1	
45		Poots Total	£100.00		
46		Grand Count	£2,104.00	20	
47		Grand Total	£2,104.00		
48					
49					
50					

**WP1**

Times New Roman

Size 14

Letter

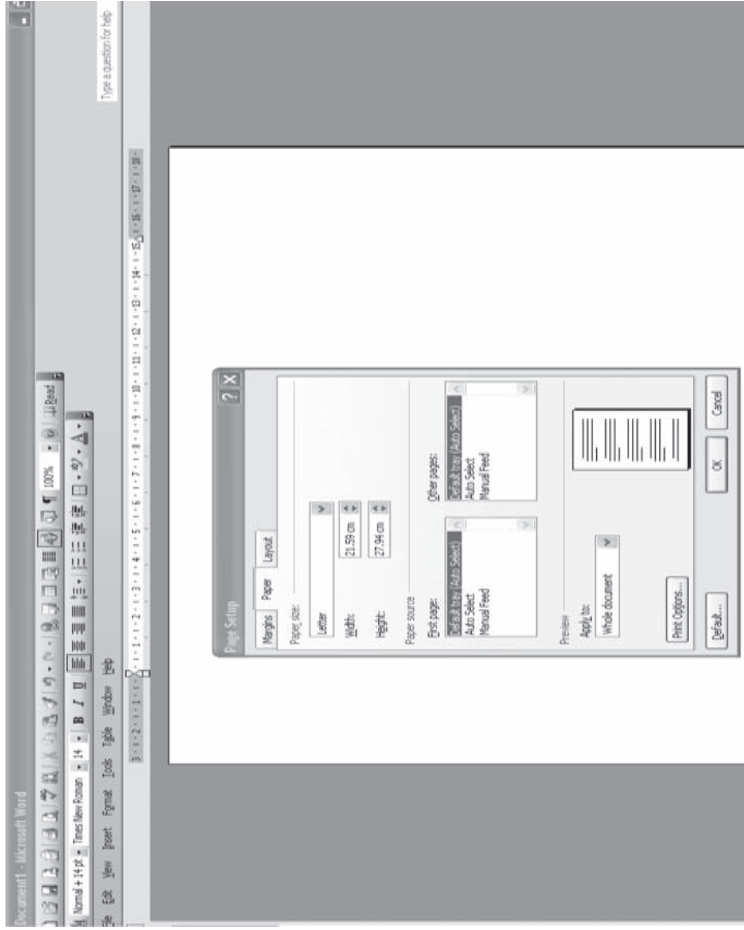
[1]

[1]

[1]

**TOTAL WP1 [3]**

## SCREENSHOT 1



## WP2

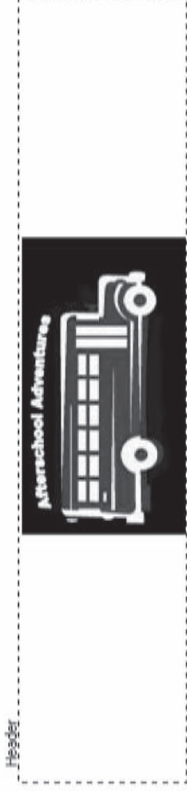
Correct logo  
Positioned in centre

[1]

[1]

**TOTAL WP2 [2]**

## SCREENSHOT 2



## 13 WP3

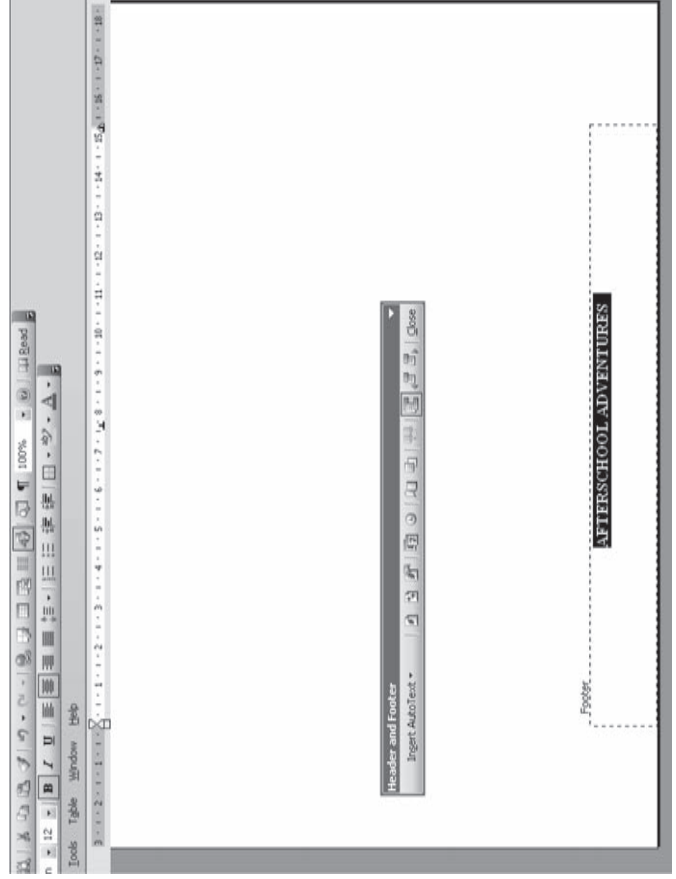
Correct Text in footer  
Text centred

[1]

[1]

**TOTAL WP3 [2]**

## SCREENSHOT 3



#### WP4 SCREENSHOT 4

Date/Correct format

Date Position

Line 1

Starting Ln12 Col1

Table

Rows/cols

Text [1]

Line 2

Line 3

[1]

[1]

[1]

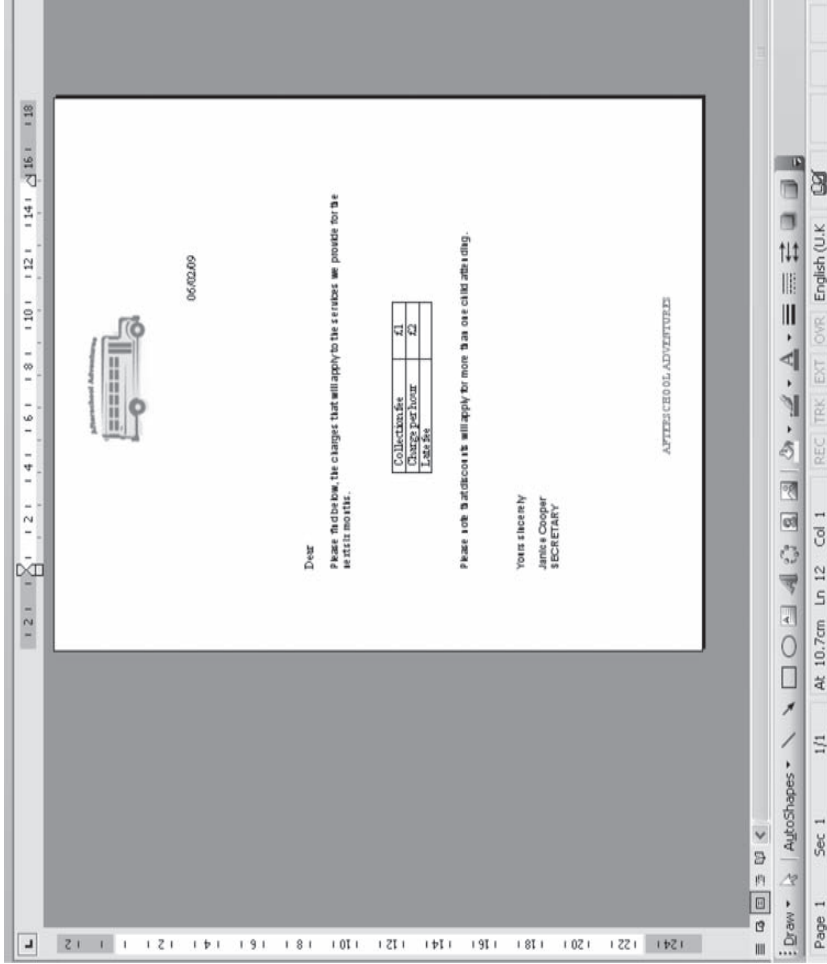
[1]

[1]

[1]

[1]

**TOTAL WP4 [8]**



## WP5 SCREENSHOT 5

Line 5 Column 1

Correct fields

-1 for any missing

Separate lines

Correct fields after Dear

**SAMPLE** (4th page)

4th letter shown

Space between parent first name and last name  
(both occurrences)

**TOTAL WP5**

[1]

[2]

[1]

[1]

[1]

[1]

[7]

## WP5 SAMPLE

The screenshot shows a Microsoft Word document with a letter template. The document is displayed in a window titled "Tools Table Window Help" with a status bar at the bottom showing "6,7cm Ln 5 Col 1 REC TRK EXT OVR English (U.K)".

The letter content includes:

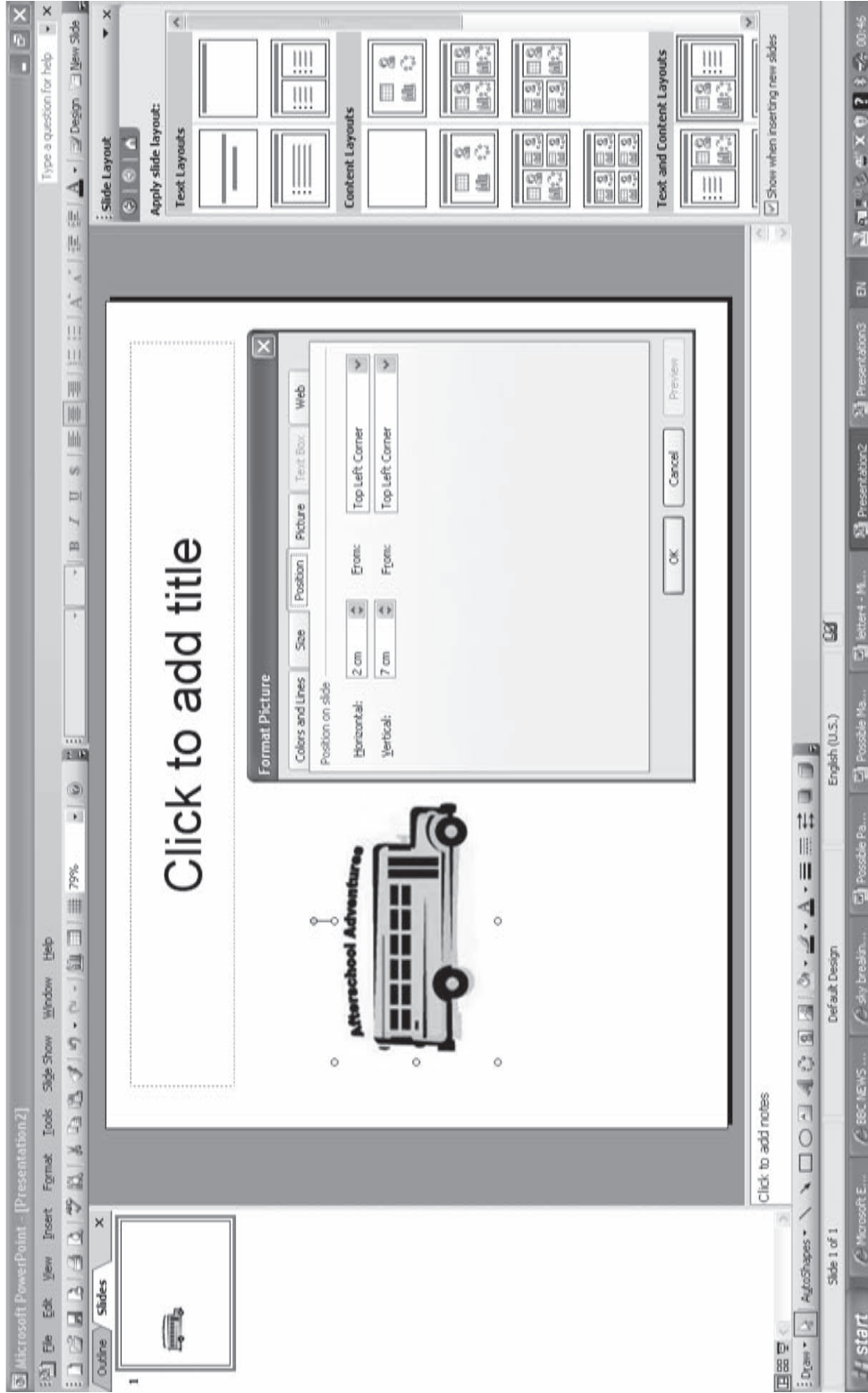
- A logo for "AfterSchool Adventures" featuring a school bus.
- A phone number: 0600209
- Fields for recipient information: <Parent\_First\_Name> <Parent\_Last\_Name>, <Address 1>, <Town>, <Postcode>
- A salutation: Dear <Parent\_First\_Name> <Parent\_Last\_Name>.
- A paragraph: Please find below the charges that will apply to the services we provide to you within month.
- A table with 2 columns and 3 rows:

Collection fee	£1
Charge per hour	£2
Label fee	

Below the table, it says: Please note that discounts will apply for more than one child attending.

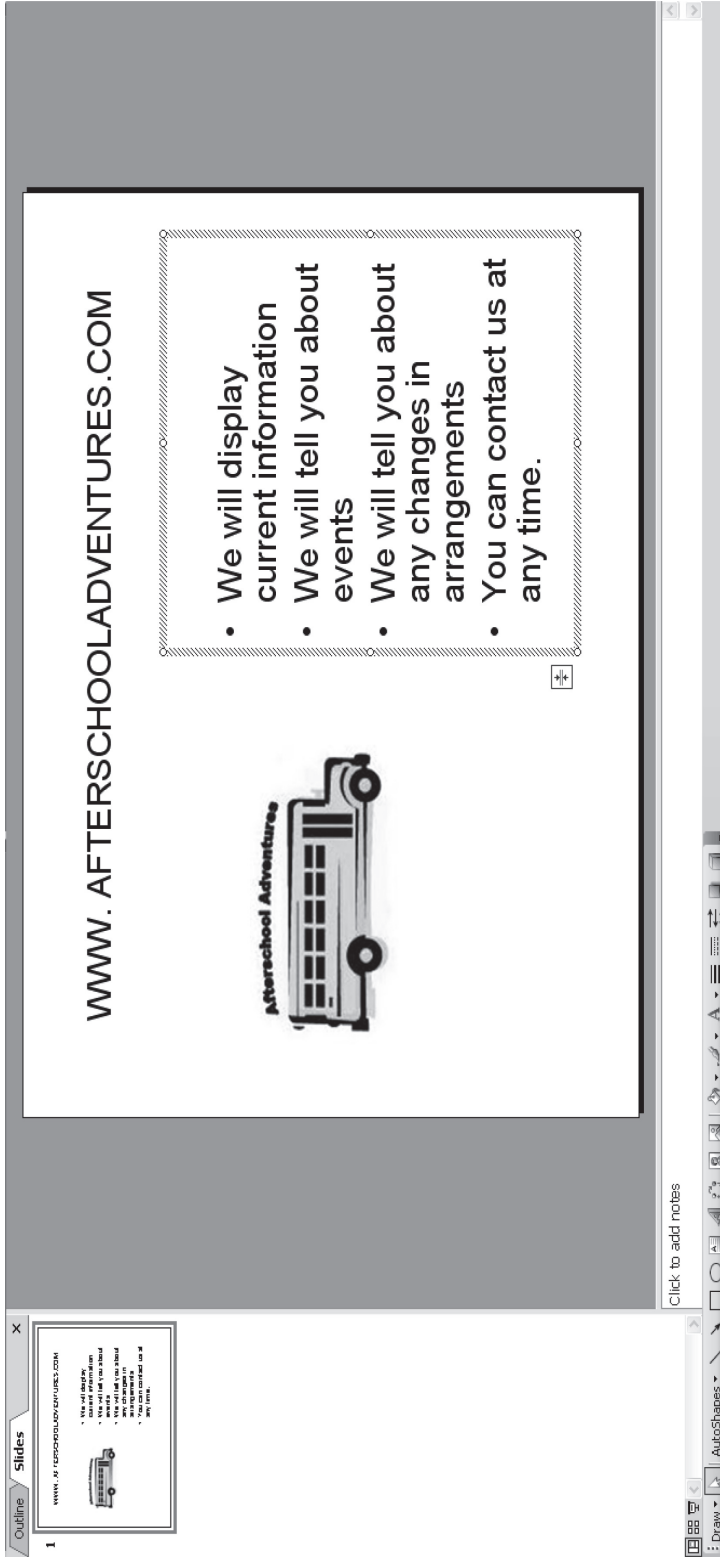
The letter concludes with: YOURS SINCERELY, JAMES COOPER, SECRETARY, and a footer: AFTER SCHOOL ADVENTURES.

SCREENSHOT 6



- Correct logo [1]
- Correct position as seen in dialog box only [1]
- Positioned on LHS [1]

# SCREENSHOT 7



Correct title

[1]

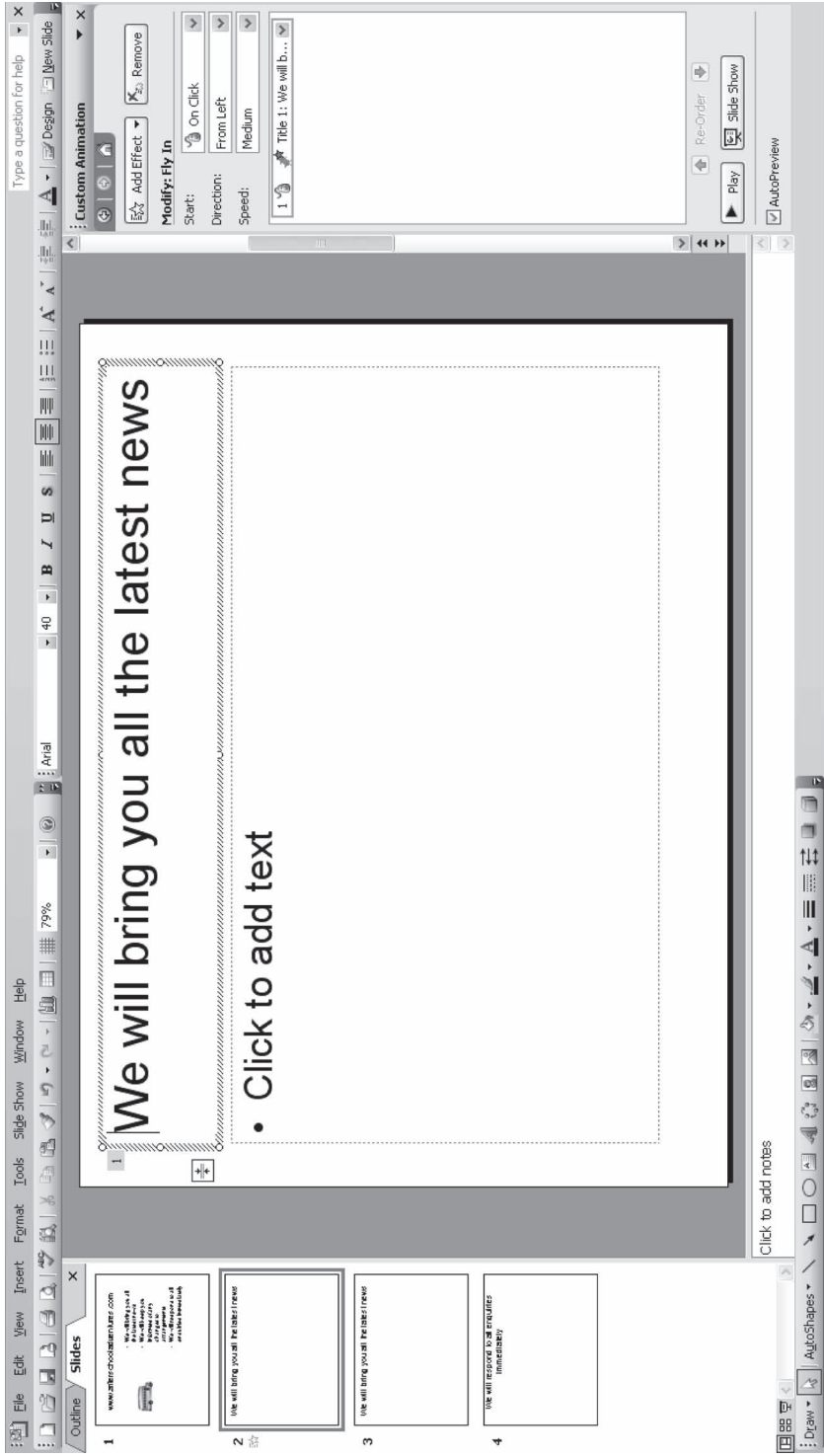
Any three relevant statements

[3]

**TOTAL MARKS [7]**



SCREENSHOT 8



Addition of slide with titles [1]  
 Correct animation displayed [3]  
 On click, From Left, Medium

**TOTAL MM2 [4]**

**Total marks for multimedia tasks MM1:MM2 [11]**

**Total**