Mark Scheme (Results)

June 2012

International GCSE ICT (4IT0)
Paper 2 Practical Paper

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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.

Activity 1 – Using Art / Imaging and Graphics Software (AG)

InterAYR
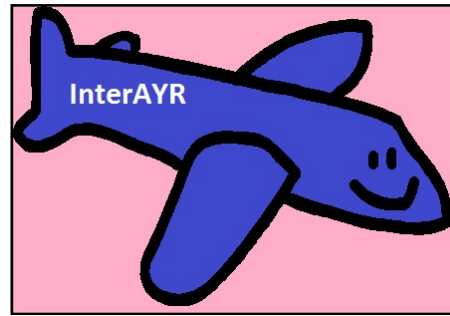
AG1a	1	Some cropping – the whole of the plane is visible	1
	2	Some cropping – image remains rectangular without distortion	1
	3	Image cropped to remove as much as possible of the background	1
AG1b	1	Shape of plane stands out on printout – colours changed to increase contrast	1
	2	**InterAYR** added to side of plane – spelt and capitalised as given	1
	3	Image is fit for purpose as a logo – text, face, plane outline clearly visible	1
AG1c	1	Comment on lack of contrast in original	1
	2	Comment on how their choice has more contrast to make it easier to distinguish elements of the image when printed	1
		Total for Task AG1	**8**
		TOTAL FOR ACTIVITY 1	**8**

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Activity 2 – Using Database Software (DB)

	CUSTOMER						
ID	**TITLE**	**INITIAL**	**FNAME**	**LNAME**	**PHONE**	**DEST**	**DATE**
SVEL6	Ms	L	Laura	Svensson	00 44 1234 953 262	MAD	04/07/2012
ELLE7	Ms	E	Emily	Ellis	00 44 1922 267 262	HND	07/07/2012
FINJ7	Ms	J	Jill	Finch	00 44 1922 268 223	DAC	08/07/2012
PARR4	Ms	R	Ruth	Parker	00 44 1884 667 252	BGI	09/07/2012
JONA8	Ms	A	Anna	Jones	00 44 1924 683 321	FRA	17/07/2012
BOIJ2	Mr	J	James	Boil	00 44 1924 686 277	MCT	19/07/2012
SMIJ1	Mr	J	John	Smith	00 44 1451 492 004	GIG	20/07/2012
GRAM8	Mr	M	Martin	Grant	00 44 1134 687 333	ESR	23/07/2012
LEGK1	Ms	K	Kate	Leggett	00 44 1922 268 329	ORD	24/07/2012
PATL1	Ms	L	Lorna	Patrick	00 44 1884 668 838	DOH	26/07/2012
NICP7	Mr	P	Philip	Nicholls	00 44 1884 663 292	ORD	27/07/2012
LINA6	Mr	A	Andrew	Ling	00 44 1924 687 474	PER	29/07/2012
BELS8	Ms	S	Sofia	Bell	00 44 1134 095 464	SYD	02/08/2012
BARJ6	Ms	J	Jennie	Bartholomew	00 44 1924 686 867	DOH	03/08/2012
DONR7	Ms	R	Rebecca	Donnegan	00 44 1451 492 252	HKG	05/08/2012
STOJ9	Ms	J	Julie	Stomp	00 44 1234 953 323	NBO	06/08/2012
GOLC8	Mr	C	Connor	Gold	00 44 1134 686 366	MCT	07/08/2012
MURM4	Mr	M	Matthew	Murray	00 44 1884 662 262	DOH	08/08/2012
DRES5	Mr	S	Stuart	Drew	00 44 1924 683 353	ATL	09/08/2012
HARC2	Ms	C	Charlotte	Harries	00 44 1922 269 236	MCT	13/08/2012
RUSA2	Ms	A	Anna	Russell	00 44 1134 073 273	MCT	14/08/2012
RENJ1	Ms	J	Jessica	Renard	00 44 1234 951 182	LAX	16/08/2012
PETC9	Mr	C	Chris	Peters	00 44 1134 073 647	CGP	18/08/2012
THOF9	Ms	F	Freda	Thompson	00 44 1234 952 272	NBO	20/08/2012
KINJ4	Mr	J	John	King	00 44 1924 686 777	DAC	22/08/2012
DRAR2	Ms	R	Rose	Drake	00 44 1134 073 335	SYD	23/08/2012
EDWN9	Mr	N	Nicholas	Edwards	00 44 1458 749 252	KUL	25/08/2012
BANM8	Mr	M	Mark	Bancroft	00 44 1924 686 686	NAS	26/08/2012
SVEA3	Ms	A	Alex	Svensson	00 44 1451 492 273	DOH	27/08/2012
EDWE1	Ms	E	Elizabeth	Edwards	00 44 1458 749 360	PER	28/08/2012

CUSTOMER DATA ENTRY FORM

ID: BANM8
TITLE: Mr
INITIAL: M
FIRST NAME: Mark
LAST NAME: Bancroft
PHONE: 00 44 1924 686 686
DESTINATION: NAS
DATE: 26/08/2012

Previous   Next   New

Record: 1 of 29   No Filter   Search

DB1a	1	Screen shot shows complete data entry form including title bar and navigation buttons – data entry view	1
	2	Appropriate title on the form e.g. Customer Details, NOT just Customer	1
	3	Eight correct fields for form	1
	4	At least one field name customised appropriately	1
	5	Use of a drop down list for **TITLE** or **DEST** or **INITIAL**	1
	6	One additional enhancement from: appropriate field size/ customisation of all of **FNAME, LNAME** and **DEST/** buttons/ two drop down lists / suitable on screen help. Do not accept date picker	1
DB1b i	1 2	**BARJ6, Ms, J, Jennie, Bartholomew, 00 44 1924 686867, DOH, 03/08/2012** New customer entered with no data entry errors and formatted same as corresponding data in other records Accept phone number with or without space in last six digits/	2/
		One field contains data entry or formatting error. Ignore repeated error of capitalisation.	1
DB1b ii	1	Table as seen sorted on **DATE**	1
	2	Sorted in **ascending** order of **DATE**, minimum of 10 records	1
	3	Table printed 30 records, 8 correct fields, no truncation, allow follow through if new record not entered	1
		Total for Task DB1	11

DB2b

CITY	COUNTRY	DISTANCE
Doha	Qatar	5235
Dubai	United Arab Emirates	5492
Frankfurt	Germany	652
Rio De Janeiro	Brazil	9247
Kuala Lumpur	Malaysia	10598
Madrid	Spain	246
Nairobi	Kenya	6573
Chicago	United States	6340
Singapore	Singapore	10875
Sydney	Australia	17009

DB2a

TITLE	INITIAL	LNAME	PHONE	DATE
Mr	J	Boil	00 44 1924 686 277	19/07/2012
Mr	C	Gold	00 44 1134 686 366	07/08/2012
Ms	C	Harries	00 44 1922 269 236	13/08/2012
Ms	A	Russell	00 44 1134 073 273	14/08/2012

DB2a	1	Correct 4 records. Minimum LNAME field.	1
	2	Correct fields **TITLE**, **INITIAL**, **LNAME**, **PHONE** and **DATE** only	1
	3	Correct field order as in mark point 2. Ignore additional fields.	1
	4	Data sorted in ascending order of **LNAME**	1
DB2b	1	Correct 10 records for 2 marks Minimum CITY field	2/
	2	8 Records only for >4000 **or** 2 (Sydney & Chicago) Records only for =4000 for 1 mark	1
	3	Correct fields **CITY, COUNTRY, DISTANCE** only	1
		Total for Task DB2	**7**

Field:	FNAME	LNAME	PHONE	COUNTRY	CITY	DATE
Table:	CUSTOMER	CUSTOMER	CUSTOMER	AIRPORT	AIRPORT	CUSTOMER
Sort:						
Show:	✓	✓	✓	✓	✓	✓
Criteria:						>=#23/07/2012# And <=#29/07/2012#
or:						
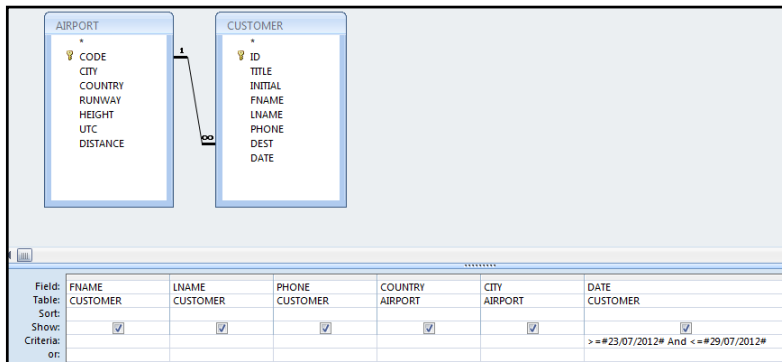
DB3a

FNAME	LNAME	PHONE	COUNTRY	CITY	DATE
Martin	Grant	00 44 1134 687 333	Chile	El Salvador	23/07/2012
Kate	Leggett	00 44 1922 268 329	United States	Chicago	24/07/2012
Andrew	Ling	00 44 1924 687 474	Australia	Perth	29/07/2012
Philip	Nicholls	00 44 1884 663 292	United States	Chicago	27/07/2012
Lorna	Patrick	00 44 1884 668 838	Qatar	Doha	26/07/2012

List of customers flying between 23rd July and 29th July

LAST NAME	FIRST NAME	COUNTRY	CITY	DATE
Leggett	Kate	United States	Chicago	24/07/2012
Nicholls	Philip	United States	Chicago	27/07/2012
Patrick	Lorna	Qatar	Doha	26/07/2012
Grant	Martin	Chile	El Salvador	23/07/2012
Ling	Andrew	Australia	Perth	29/07/2012

01 June 2012   Pag

DB3a		Allow **Between 23/07/2012 And 29/07/2012** for marks 3, 4 and 5 Allow mark points 2, 3, 4, 5 and 6 for correct responses in data view.	
	1	Screen shot of query design. Minimum requirement 6 Labels (LHS of grid) and 1 field.	1
	2	Screen shot shows at least one field from each table used in query	1
	3	>= 23/07/2012 or > 22/07/2012 allow if only correct 5 records	1
	4	<= 29/07/2012 or < 30/07/2012 allow if only correct 5 records	1
	5	Design shows the criteria as AND allow if only correct 5 records	1
	6	Fields **FNAME**, **LNAME**, **PHONE**, **COUNTRY**, **CITY**, **DATE** only to be printed	1
DB3b		**Must be a report format for any marks**	
	1	Suitable title must include "customers", "23 July" "29 July"	1
	2	Correct 5 records (allow follow through from **DB3a** for 3 records shown omission of = in criteria) with at least one field from each table	1
	3	Correct fields **LNAME, FNAME**, **COUNTRY**, **CITY**, **DATE** in correct order	1
	4	Suitable customisation of field headings **FNAME, LNAME**	1
	5	Primary sort on **CITY** in ascending order	1
	6	Secondary sort on **DATE** in ascending order – do not award unless primary sort on **CITY** (either ascending or descending)	1
	7	Suitable layout (spacing and column headers) on one side of A4	1
		Total for Task DB3	**13**
		TOTAL FOR ACTIVITY 2:	**31**

Activity 3 – Using Web Authoring Software (WA)

WA1 i	1	1 page presented – all page visible and all text readable	**1**
	2	Logo from **AG1b** (AYRLOGO) visible	**1**
	3	Logo in top left corner of the page – appropriate size and position	**1**
	4	Suitable title for the page – e.g. InterAYR Special Offers	**1**
	5	Text selected from **NOTES** for Paris and/or Ireland	**1**
	6	Paris and/or Ireland image(s) inserted relevant to selected text. Allow f/t for correct image with only one incorrect offer selected. Image(s) not distorted and suitable size.	**1**
	7	Links to home page visible – award if evidence of hyperlink (e.g. underline/icon)	**1**
	8	At least one correct contact detail of address, phone or email	**1**
	9	Correct contact details present Address: InterAYR, 1 High Street, Croftor, Middlesex, TW21 PM Phone 01753 329202; Email: enquiries@interayr.co.uk	**1**
WA1 ii	1	Layout is consistent with design – information in correct locations	**1**
	2	Colour scheme applied as in design – dark (blue) text on pale (yellow) background	**1**
	3	Appropriate font style and size for title	**1**
	4	Overall appropriateness of text (font styles and sizes)	**1**
	5	Overall fitness for purpose – does the page attract attention for the special offer	**1**
	6	Overall fitness for purpose – good use of software tools e.g. text and images aligned, no split words, text and images do not overlap, no distortion of logo	**1**
		Total for Task WA1	**15**
		TOTAL FOR ACTIVITY 3:	**15**

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Activity 4 – Using Spreadsheet Software (SS)

	A	B	C	D
1		**Prices for InterAYR**		
2				
3	**City**	**Current Price**	**Distance**	**Customers**
4	Amsterdam	£44.66	368	11
5	Birmingham	£40.46	226	37
6	Dublin	£77.23	449	45
7	Frankfurt	£64.62	653	31
8	Madrid	£89.10	1245	20
9	Paris	£45.21	347	23
10				
11	Total			

SS1 i	1	Suitable title e.g. InterAYR Ticket Prices	1
	2	Suitable location for title e.g. in range A1 to D1	1
SS1 ii	1	Airport cities in ascending alphabetical order	1
	2	Table of data sorted in order of City (not just airport names) First row Amsterdam, 44.66, 368, 11	1
SS1 iii	1	Spreadsheet is presented fit for purpose. No truncation.	1
SS1 iv	1	Spreadsheet formatted for ease of reading.	2
	2	Any of the following up to 2 max • Appropriate borders • Appropriate shading • Use of bold/underline/font size for column headings • Formatting of column B to currency • Suitable alignment (e.g. centring of columns B to D)	
		Total for Task SS1	**7**

	A	B	C	D	E
1			Prices for InterAYR		
2					
3	City	Current Price	Distance	Customers	Current Income
4	Amsterdam	44.66	368	11	=B4*D4
5	Birmingham	40.46	226	37	=B5*D5
6	Dublin	77.23	449	45	=B6*D6
7	Frankfurt	64.62	653	31	=B7*D7
8	Madrid	89.1	1245	20	=B8*D8
9	Paris	45.21	347	23	=B9*D9
10					
11	Total				=SUM(E4:E9)

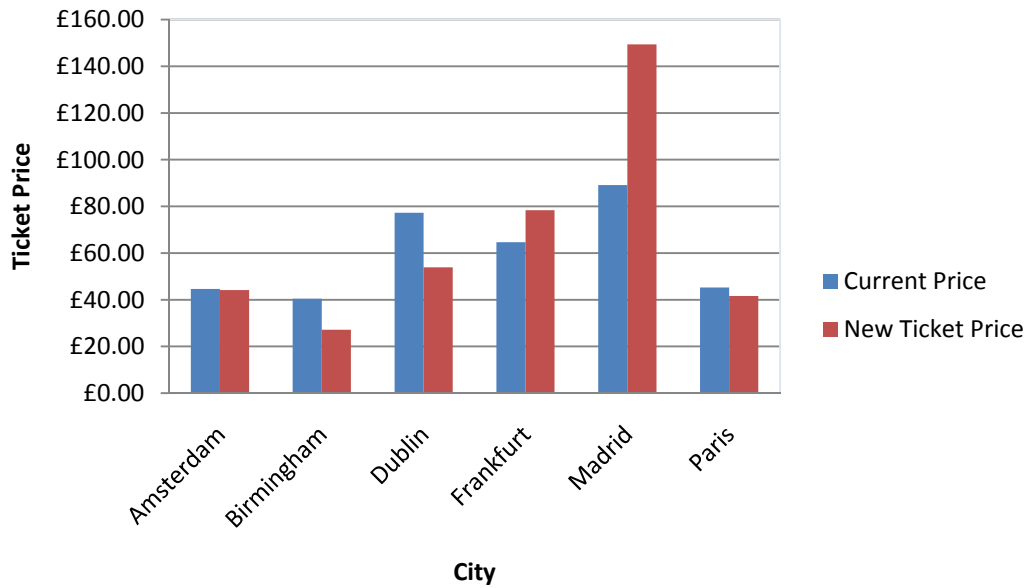| SS2 i	1	**Current Income** entered in cell in column E – same row as other labels	1
SS2 ii	1	=B4*D4 entered in cell E4. Allow follow through.	2
	2	Formula using cell references which gives correct answer (eg. =SUM(B4*D4)	/1
SS2 iii	1	Replication of formula to other cities	1
SS2 iv	1	=SUM(E4:E9) in cell E11 (**Totals** row)	2
	2	Formula in E11 using cell references which gives correct answer (e.g. =E4+E5+ ... or =SUM(E4:E10))	/1
		Or =SUM(E4:E9) in cell other than E11 (Totals row)	/1
		Total for Task SS2	**6**

	A	B	C	D	E	F	G
1	Prices for InterAYR				Charge per Kilometre	0.15	
2							
3	City	Current Price	Distance	Customers	Current Income	New Ticket Price	New Income
4	Amsterdam	44.66	368	11	=B4*D4	=C4*F1	=F4*D4
5	Birmingham	40.46	226	37	=B5*D5	=C5*F1	=F5*D5
6	Dublin	77.23	449	45	=B6*D6	=C6*F1	=F6*D6
7	Frankfurt	64.62	653	31	=B7*D7	=C7*F1	=F7*D7
8	Madrid	89.1	1245	20	=B8*D8	=C8*F1	=F8*D8
9	Paris	45.21	347	23	=B9*D9	=C9*F1	=F9*D9
10							
11	Total				=SUM(E4:E9)		=SUM(G4:G9)

SS3 i	1	**0.15** entered in suitable cell	1
	2	Label (Charge per kilometre) entered in adjacent cell to value	1
SS3 ii	1	Labels **New Ticket Price** and **New Income** entered in cell headings row.	1
SS3 iii	1	Eg =**C4*F1** or =**C4*F$1** or = **$F$1*C4** or = **F$1*C4** in cell **F4**.	2
	2	Accept absolute reference for cell which contains 0.15. Other formula in cell F4 using cell references which would give correct answer. Allow =C4*0.15	1
SS3 iv	1	=**D4*F4** or =**F4*D4** in cell **G4** Do not allow =SUM(F4*D4)	1
SS3 v	1	Formulae in cells F4 and G4 replicated to other cities (must have absolute cell reference in cell F4). Do not accept replication of formula with constant value (eg 0.15)	1
SS3 vi	1	=**SUM(G4:G9)** entered in G11 Do **not** award for =G4+G5+G6+G7+G8+G9 or =SUM(G4:G10)	1
		Total for Task SS3	**8**

	A	B	C	D	E	F	G
1	Prices for InterAYR				Charge per Kilometre	£0.12	
2							
3	City	Current Price	Distance	Customers	Current Income	New Ticket Price	New Income
4	Amsterdam	£44.66	368	11	£491.26	£44.16	£485.76
5	Birmingham	£40.46	226	37	£1,497.02	£27.12	£1,003.44
6	Dublin	£77.23	449	45	£3,475.35	£53.88	£2,424.60
7	Frankfurt	£64.62	653	31	£2,003.22	£78.36	£2,429.16
8	Madrid	£89.10	1245	20	£1,782.00	£149.40	£2,988.00
9	Paris	£45.21	347	23	£1,039.83	£41.64	£957.72
10							
11	Total				£10,288.68		£10,288.68

SS4 i	1	Value £0.15 changed to **£0.12**	2
	2	Allow 1 mark if £0.12 entered elsewhere on spreadsheet	
SS4 ii	1	All numerical values in cells apart from columns C and D (distance and customers) formatted to show currency symbols and 2 decimal places	1
	2	Consistency of borders, shading and font styles. All data is visible Consistency of capitalisation of labels. Correct spelling of labels.	1
		Total for Task SS4	**4**

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Comparison of new and old ticket prices

SS5	1	Bar or column chart	1
	2	Correct data range only (A4:B9, F4:F9) (no unnecessary data)	1
	3	Suitable title for graph (including concept of "comparison" and what is being compared). Accept title in header.	1
	4	Suitable axis labels (e.g. Airports/Cities, Prices)	1
	5	Suitable legend	1
		Total for Task SS5	**5**
		TOTAL FOR ACTIVITY 4:	**30**

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Activity 5 – Using Word Processing Software (WP)

MEMO

To: Pauline
From: Angela
Date: 21 May 2012
Subject: July Senior Staff Meeting

There will be a meeting of the Senior Staff in my office on Thursday 12 July at 2.00 pm. During the meeting there will be a discussion of a staff bonus scheme. As a representative of the junior staff, I would like you to attend.

Please confirm that you will be able to attend.

AYR

WP1 a i	1	To: Pauline (Moores) and From: Angela (Yelena Reith) with or without labels	**1**
	2	Date: **21 – 25 May (2012)** within exam window with or without labels	**1**
	3	Suitable subject including either Senior Staff or Bonus Scheme	**1**
	4	Message must include date, time and place of meeting and indication of discussion topic (bonus scheme)	**1**
WP1 a ii	1	Use of proofreading, grammar and spell-check – evidenced by appropriate and accurate text	**1**
	2	Fitness for purpose as a memo – layout consistent, alignment, font	**1**

Report for July Meeting

New Logo
I have had a new logo designed for the company. The new logo contains the company name added to the side of the plane. It has been designed by the new assistant I have just employed.

InterAYR

Flights to airports with longer runways
I have searched the database to find airports which can take larger airplanes. I am considering offering special deals to these airports so that we can fill more seats on the planes. This will generate more income for the company.

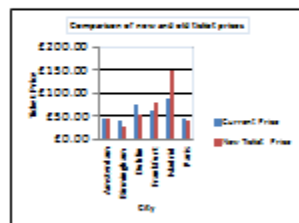| CITY	COUNTRY	DISTANCE
Doha	Qatar	5235
Dubai	United Arab Emirates	5492
Frankfurt	Germany	652
Rio De Janeiro	Brazil	9247
Kuala Lumpur	Malaysia	10598
Madrid	Spain	246
Nairobi	Kenya	6573
Chicago	United States	6340
Singapore	Singapore	10875
Sydney	Australia	17009

Special Offers
I have asked my new assistant to produce a web page about the special offers we will be making available to customers during September. The web page will be added to the company website during the next few weeks. One special offer being considered is day return trips to Paris for £20. Another of the offers is a weekend break in Dublin with free accommodation.

Special Offer in September

Special weekend break with free accommodation for 2 in Ireland on Friday 14 September

Address: Airport Way, High Street, Crofter, Middlesex TW21 2FM
Phone: 01753 100000
Website: www.interayr.co.uk
E-mail: enquiries@interayr.co.uk

Comparison of ticket prices
The graph shown here compares the income from our current pricing structure to the income which would be obtained if we changed to a fixed rate per kilometre travelled. As you can see some of the ticket prices would increase whilst others would decrease. However our most popular route to Dublin Airport in Ireland would not make as much income as it does presently.

Comparison of new and old ticket prices

■ Current Price
■ New Ticket Price

WP1b i	1	Text from **JULY** inserted	**1**
	2	Logo from **AG1b** inserted	**1**
	3	Database query results from **DB2b** inserted	**1**
	4	Screen shot of web page from **WA1** inserted	**1**
	5	Graph from **SS5** inserted	**1**
WP1b ii	1	Inserts with appropriate text	**1**
	2	All items inserted with appropriate layout – image appropriate size and proportions maintained with no truncation or overlap	**1**
	3	Appropriateness and consistency of font – size and style of title, side headings, body text. Title and sub-headings stand out.	**1**
	4	Consistency of layout – alignment and justification of images and text. No inappropriate hyphenation.	**1**
	5	Fits on and fills one A4 sheet only (at least ¾ of page)	**1**
		Total for Task WP1	**16**
		TOTAL FOR ACTIVITY 5:	**16**

	TOTAL FOR PAPER:	**100**

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