

**CAMBRIDGE INTERNATIONAL EXAMINATIONS**

Cambridge International Advanced Subsidiary and Advanced Level

**MARK SCHEME for the October/November 2015 series**

**9713 APPLIED INFORMATION AND  
COMMUNICATION TECHNOLOGY**

**9713/02**

Paper 2 (Practical Test A), maximum raw mark 120

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

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**Values printout**

Print area A1 to F31 1 mark  
 Single page & fully visible 1 mark  
 Header – Name & numbers 1 mark

**Conditional formatting**

Grey background in correct (Fail) cells 1 mark

**Calculation**

Correct grades with accurate spelling 1 mark

A Candidate XXX999, 9999

Student Number	Class Name	Surname	Baseline Test	Baseline Grade
TH50001	Alpha	Henry	Gale	15 Fail
TH50005	Alpha	Karla	Greenhalgh	38 Pass
TH50006	Alpha	Fred	Pooley	71 Merit
TH50009	Alpha	Rio	Ratel	70 Merit
TH50010	Alpha	Ruksena	Gopeul	56 Pass
TH50011	Alpha	Angela	Akula	46 Pass
TH50016	Alpha	Trevor	Jones	42 Pass
TH50028	Alpha	Li Sun	Wu	60 Merit
TH50031	Alpha	Joanne	Floyd	20 Fail
TH50033	Alpha	Linde	Stuart	63 Merit
TH50036	Alpha	Tony	Thomson	62 Merit
TH50037	Alpha	Duncan	Rydell	15 Fail
TH50038	Alpha	Dougie	Ryder	63 Merit
TH50040	Alpha	Laura	Macdonald	53 Pass
TH50044	Alpha	Krystal	Read	91 Distinction
TH50051	Alpha	Kieran	Kelly	95 Distinction
TH50053	Alpha	Jane	Morrison	80 Distinction
TH50054	Alpha	Natasha	Paterson	60 Merit
TH50055	Alpha	Yo-Yo	Chong	14 Fail
TH50058	Alpha	Liu	Teo	99 Distinction
TH50062	Alpha	Wai Wai Hnin	Su	62 Merit
TH50066	Alpha	Lai	Xu	16 Fail
TH50067	Alpha	Li	Oon	90 Distinction
TH50071	Alpha	Cindy	Brown	58 Pass
TH50072	Alpha	Tally	Telfer	54 Pass
TH50076	Alpha	Tanon	Bridges	69 Merit
TH50078	Alpha	Alejandro	Jackson	71 Merit
TH50084	Alpha	Bruce	Wame	91 Distinction
TH50090	Alpha	Aaron	Peeters	29 Fail
TH50091	Alpha	Peter	Barcot	90 Distinction

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### Formulae

Print area C1 to F33 1 mark  
 Row and column headings 1 mark  
 Single Page 1 mark  
 All labels and formulae fully visible 1 mark

### Nested IF

3 tiers 1 mark  
 E2<30 1 mark  
 Fail 1 mark  
 E2>79 1 mark  
 Distinction 1 mark  
 E2>59 1 mark  
 Merit 1 mark  
 Else Pass 1 mark  
 Replication 1 mark

A Candidate XX999, 9999

	C	D	E	F
1		Surname	Baseline Test	Baseline Grade
2	Henry	Gale	15	=IF(E2<30,"Fail",IF(E2>79,"Distinction",IF(E2>59,"Merit","Pass")))
3	Karla	Greenhalgh	38	=IF(E3<30,"Fail",IF(E3>79,"Distinction",IF(E3>59,"Merit","Pass")))
4	Fred	Pooley	72	=IF(E4<30,"Fail",IF(E4>79,"Distinction",IF(E4>59,"Merit","Pass")))
5	Rio	Patel	70	=IF(E5<30,"Fail",IF(E5>79,"Distinction",IF(E5>59,"Merit","Pass")))
6	Ruksana	Gopaul	56	=IF(E6<30,"Fail",IF(E6>79,"Distinction",IF(E6>59,"Merit","Pass")))
7	Angela	Akula	46	=IF(E7<30,"Fail",IF(E7>79,"Distinction",IF(E7>59,"Merit","Pass")))
8	Trevor	Jones	42	=IF(E8<30,"Fail",IF(E8>79,"Distinction",IF(E8>59,"Merit","Pass")))
9	Li Sun	Wu	60	=IF(E9<30,"Fail",IF(E9>79,"Distinction",IF(E9>59,"Merit","Pass")))
10	Joanne	Floyd	20	=IF(E10<30,"Fail",IF(E10>79,"Distinction",IF(E10>59,"Merit","Pass")))
11	Linda	Stuart	63	=IF(E11<30,"Fail",IF(E11>79,"Distinction",IF(E11>59,"Merit","Pass")))
12	Tony	Thomson	62	=IF(E12<30,"Fail",IF(E12>79,"Distinction",IF(E12>59,"Merit","Pass")))
13	Duncan	Rydell	15	=IF(E13<30,"Fail",IF(E13>79,"Distinction",IF(E13>59,"Merit","Pass")))
14	Dougie	Ryder	63	=IF(E14<30,"Fail",IF(E14>79,"Distinction",IF(E14>59,"Merit","Pass")))
15	Laura	Macdonald	53	=IF(E15<30,"Fail",IF(E15>79,"Distinction",IF(E15>59,"Merit","Pass")))
16	Krystal	Read	91	=IF(E16<30,"Fail",IF(E16>79,"Distinction",IF(E16>59,"Merit","Pass")))
17	Kieran	Kelly	95	=IF(E17<30,"Fail",IF(E17>79,"Distinction",IF(E17>59,"Merit","Pass")))
18	Jane	Morrison	80	=IF(E18<30,"Fail",IF(E18>79,"Distinction",IF(E18>59,"Merit","Pass")))
19	Natasha	Paterson	60	=IF(E19<30,"Fail",IF(E19>79,"Distinction",IF(E19>59,"Merit","Pass")))
20	Yo-Yo	Chong	14	=IF(E20<30,"Fail",IF(E20>79,"Distinction",IF(E20>59,"Merit","Pass")))
21	Liu	Teo	99	=IF(E21<30,"Fail",IF(E21>79,"Distinction",IF(E21>59,"Merit","Pass")))
22	Wai Wai Hnin	Su	62	=IF(E22<30,"Fail",IF(E22>79,"Distinction",IF(E22>59,"Merit","Pass")))
23	Lei	Xu	16	=IF(E23<30,"Fail",IF(E23>79,"Distinction",IF(E23>59,"Merit","Pass")))
24	Li	Oon	90	=IF(E24<30,"Fail",IF(E24>79,"Distinction",IF(E24>59,"Merit","Pass")))
25	Cindy	Brown	58	=IF(E25<30,"Fail",IF(E25>79,"Distinction",IF(E25>59,"Merit","Pass")))
26	Tally	Telfer	54	=IF(E26<30,"Fail",IF(E26>79,"Distinction",IF(E26>59,"Merit","Pass")))
27	Tanon	Bridges	69	=IF(E27<30,"Fail",IF(E27>79,"Distinction",IF(E27>59,"Merit","Pass")))
28	Alejandro	Jackson	71	=IF(E28<30,"Fail",IF(E28>79,"Distinction",IF(E28>59,"Merit","Pass")))
29	Bruce	Warne	91	=IF(E29<30,"Fail",IF(E29>79,"Distinction",IF(E29>59,"Merit","Pass")))
30	Aaron	Peeters	29	=IF(E30<30,"Fail",IF(E30>79,"Distinction",IF(E30>59,"Merit","Pass")))
31	Peter	Barcot	90	=IF(E31<30,"Fail",IF(E31>79,"Distinction",IF(E31>59,"Merit","Pass")))
32				
33		Total	100	

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**Formulae**

- Columns B, C and D hidden 1 mark
- Row and column headings 1 mark
- Fully visible 1 mark
- New lookup table 2 marks
- VLOOKUP or alternative method 1 mark
- Correct cell G? 1 mark
- Relative reference 1 mark
- Correct range 1 mark
- As absolute reference or named range 1 mark
- Correct return column – 2 1 mark
- True parameter 1 mark

A/C Certificate 9998, 9999

	A	B	C	D	E	F	G	H	I	J
1	Student Number	Baseline Test	Baseline Grade				IGCSE Test Score	IGCSE Test Grade	Min	Grade
2	TH60001	15	=IF(E2>30,"Fail",IF(E2>34,"Distinction",IF(E2>38,"Merit",IF(E2>42,"Pass"))))				20	=VLOOKUP(G2,\$G2:\$H2,TRUE)	8	U
3	TH60005	18	=IF(E3>30,"Fail",IF(E3>34,"Distinction",IF(E3>38,"Merit",IF(E3>42,"Pass"))))				42	=VLOOKUP(G3,\$G2:\$H2,TRUE)	20	G
4	TH60006	72	=IF(E4>30,"Fail",IF(E4>34,"Distinction",IF(E4>38,"Merit",IF(E4>42,"Pass"))))				67	=VLOOKUP(G4,\$G2:\$H2,TRUE)	30	F
5	TH60008	70	=IF(E5>30,"Fail",IF(E5>34,"Distinction",IF(E5>38,"Merit",IF(E5>42,"Pass"))))				68	=VLOOKUP(G5,\$G2:\$H2,TRUE)	38	E
6	TH60010	56	=IF(E6>30,"Fail",IF(E6>34,"Distinction",IF(E6>38,"Merit",IF(E6>42,"Pass"))))				41	=VLOOKUP(G6,\$G2:\$H2,TRUE)	48	D
7	TH60011	46	=IF(E7>30,"Fail",IF(E7>34,"Distinction",IF(E7>38,"Merit",IF(E7>42,"Pass"))))				47	=VLOOKUP(G7,\$G2:\$H2,TRUE)	54	C
8	TH60016	42	=IF(E8>30,"Fail",IF(E8>34,"Distinction",IF(E8>38,"Merit",IF(E8>42,"Pass"))))				28	=VLOOKUP(G8,\$G2:\$H2,TRUE)	60	B
9	TH60028	60	=IF(E9>30,"Fail",IF(E9>34,"Distinction",IF(E9>38,"Merit",IF(E9>42,"Pass"))))				51	=VLOOKUP(G9,\$G2:\$H2,TRUE)	70	A
10	TH60030	28	=IF(E10>30,"Fail",IF(E10>34,"Distinction",IF(E10>38,"Merit",IF(E10>42,"Pass"))))				28	=VLOOKUP(G10,\$G2:\$H2,TRUE)		
11	TH60039	63	=IF(E11>30,"Fail",IF(E11>34,"Distinction",IF(E11>38,"Merit",IF(E11>42,"Pass"))))				62	=VLOOKUP(G11,\$G2:\$H2,TRUE)		
12	TH60036	62	=IF(E12>30,"Fail",IF(E12>34,"Distinction",IF(E12>38,"Merit",IF(E12>42,"Pass"))))				42	=VLOOKUP(G12,\$G2:\$H2,TRUE)		
13	TH60037	15	=IF(E13>30,"Fail",IF(E13>34,"Distinction",IF(E13>38,"Merit",IF(E13>42,"Pass"))))				11	=VLOOKUP(G13,\$G2:\$H2,TRUE)		
14	TH60038	63	=IF(E14>30,"Fail",IF(E14>34,"Distinction",IF(E14>38,"Merit",IF(E14>42,"Pass"))))				54	=VLOOKUP(G14,\$G2:\$H2,TRUE)		
15	TH60040	53	=IF(E15>30,"Fail",IF(E15>34,"Distinction",IF(E15>38,"Merit",IF(E15>42,"Pass"))))				50	=VLOOKUP(G15,\$G2:\$H2,TRUE)		
16	TH60044	31	=IF(E16>30,"Fail",IF(E16>34,"Distinction",IF(E16>38,"Merit",IF(E16>42,"Pass"))))				70	=VLOOKUP(G16,\$G2:\$H2,TRUE)		
17	TH60050	65	=IF(E17>30,"Fail",IF(E17>34,"Distinction",IF(E17>38,"Merit",IF(E17>42,"Pass"))))				79	=VLOOKUP(G17,\$G2:\$H2,TRUE)		
18	TH60053	80	=IF(E18>30,"Fail",IF(E18>34,"Distinction",IF(E18>38,"Merit",IF(E18>42,"Pass"))))				66	=VLOOKUP(G18,\$G2:\$H2,TRUE)		
19	TH60054	60	=IF(E19>30,"Fail",IF(E19>34,"Distinction",IF(E19>38,"Merit",IF(E19>42,"Pass"))))				57	=VLOOKUP(G19,\$G2:\$H2,TRUE)		
20	TH60055	14	=IF(E20>30,"Fail",IF(E20>34,"Distinction",IF(E20>38,"Merit",IF(E20>42,"Pass"))))				15	=VLOOKUP(G20,\$G2:\$H2,TRUE)		
21	TH60058	98	=IF(E21>30,"Fail",IF(E21>34,"Distinction",IF(E21>38,"Merit",IF(E21>42,"Pass"))))				78	=VLOOKUP(G21,\$G2:\$H2,TRUE)		
22	TH60060	62	=IF(E22>30,"Fail",IF(E22>34,"Distinction",IF(E22>38,"Merit",IF(E22>42,"Pass"))))				59	=VLOOKUP(G22,\$G2:\$H2,TRUE)		
23	TH60066	18	=IF(E23>30,"Fail",IF(E23>34,"Distinction",IF(E23>38,"Merit",IF(E23>42,"Pass"))))				14	=VLOOKUP(G23,\$G2:\$H2,TRUE)		
24	TH60067	30	=IF(E24>30,"Fail",IF(E24>34,"Distinction",IF(E24>38,"Merit",IF(E24>42,"Pass"))))				78	=VLOOKUP(G24,\$G2:\$H2,TRUE)		
25	TH60071	58	=IF(E25>30,"Fail",IF(E25>34,"Distinction",IF(E25>38,"Merit",IF(E25>42,"Pass"))))				50	=VLOOKUP(G25,\$G2:\$H2,TRUE)		
26	TH60072	54	=IF(E26>30,"Fail",IF(E26>34,"Distinction",IF(E26>38,"Merit",IF(E26>42,"Pass"))))				42	=VLOOKUP(G26,\$G2:\$H2,TRUE)		
27	TH60076	69	=IF(E27>30,"Fail",IF(E27>34,"Distinction",IF(E27>38,"Merit",IF(E27>42,"Pass"))))				64	=VLOOKUP(G27,\$G2:\$H2,TRUE)		
28	TH60078	71	=IF(E28>30,"Fail",IF(E28>34,"Distinction",IF(E28>38,"Merit",IF(E28>42,"Pass"))))				58	=VLOOKUP(G28,\$G2:\$H2,TRUE)		
29	TH60084	30	=IF(E29>30,"Fail",IF(E29>34,"Distinction",IF(E29>38,"Merit",IF(E29>42,"Pass"))))				68	=VLOOKUP(G29,\$G2:\$H2,TRUE)		
30	TH60090	29	=IF(E30>30,"Fail",IF(E30>34,"Distinction",IF(E30>38,"Merit",IF(E30>42,"Pass"))))				29	=VLOOKUP(G30,\$G2:\$H2,TRUE)		
31	TH60096	36	=IF(E31>30,"Fail",IF(E31>34,"Distinction",IF(E31>38,"Merit",IF(E31>42,"Pass"))))				72	=VLOOKUP(G31,\$G2:\$H2,TRUE)		
32										
33		100					80			

**Values**

Columns B, C and D hidden 1 mark  
 No row and column headings 1 mark  
 Single Page and fully visible 1 mark  
 Descending sorted on iGCSE Test Score 1 mark

A Candidate XX999, 9999

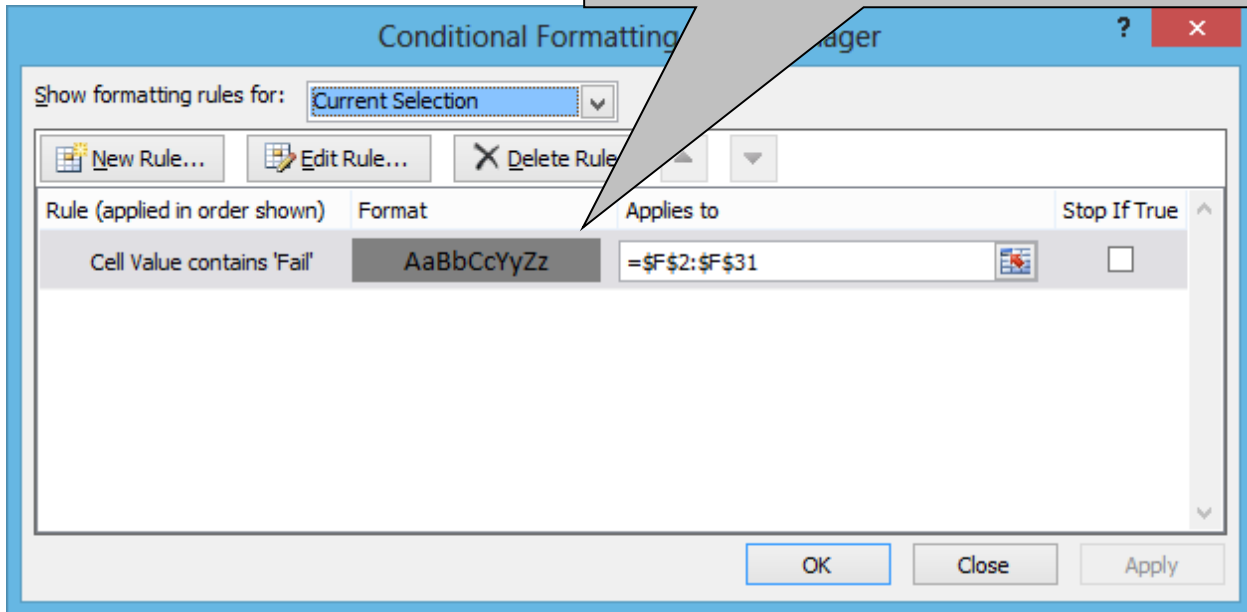
Number	Baseline Test	Baseline Grade	iGCSE Test Score	iGCSE Test Grade	Min	Grade
THS0051	95	Distinction	79	A	0	U
THS0058	99	Distinction	78	A	20	G
THS0067	90	Distinction	78	A	30	F
THS0091	90	Distinction	72	A	38	E
THS0044	91	Distinction	70	A	46	D
THS0084	91	Distinction	69	B	54	C
THS0009	70	Merit	68	B	60	B
THS0006	72	Merit	67	B	70	A
THS0053	80	Distinction	66	B		
THS0076	69	Merit	64	B		
THS0033	63	Merit	62	B		
THS0062	62	Merit	59	C		
THS0078	71	Merit	58	C		
THS0054	60	Merit	57	C		
THS0038	63	Merit	54	C		
THS0028	60	Merit	51	D		
THS0071	58	Pass	50	D		
THS0040	53	Pass	50	D		
THS0011	46	Pass	47	D		
THS0036	62	Merit	42	E		
THS0072	54	Pass	42	E		
THS0005	38	Pass	42	E		
THS0010	56	Pass	41	E		
THS0016	42	Pass	28	G		
THS0031	20	Fail	28	G		
THS0090	29	Fail	23	G		
THS0001	15	Fail	20	G		
THS0055	14	Fail	15	U		
THS0066	16	Fail	14	U		
THS0037	15	Fail	11	U		

100

80

**Evidence document**

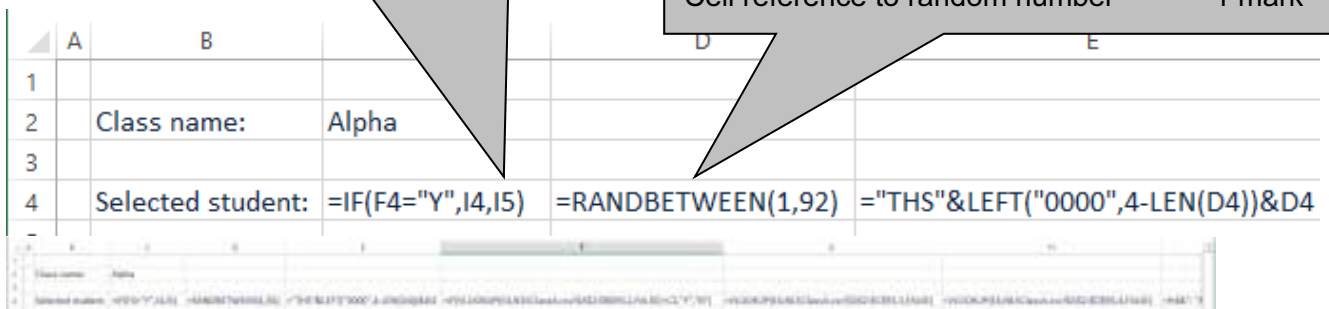
**Conditional formatting**  
 Correct cells F2 to F31 1 mark  
 Value contains "Fail" 1 mark  
 Grey shading 1 mark



**Random name generator**

**Final selection**  
 =IF 1 mark  
 Student from correct class randomised 1 mark  
 Display name 1 mark  
 Display error text 1 mark

**Random Selection**  
 RANDBETWEEN( 1 mark  
 1, 1 mark  
 92) 1 mark  
**Manipulate into student number**  
 "THS" 1 mark  
 & 1 mark  
 LEFT( 1 mark  
 "0000" 1 mark  
 ,4 1 mark  
 -LEN() 1 mark  
 Cell reference to random number 1 mark  
 & 1 mark  
 Cell reference to random number 1 mark



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**Selection**

**IF(** 1 mark  
**LOOKUP or VLOOKUP** 1 mark  
 Randomly selected student number 1 mark  
 ... with relative reference 1 mark  
 Looked up from range  
 ... N15ClassA.**CSV** 1 mark  
 ... A2:B93 1 mark  
     with absolute reference 1 mark  
     To return column 2 1 mark  
 ... False for exact match 1 mark  
 = Cell where class name entered 1 mark  
 Then flag Y (or nested next statement) 1 mark  
 Then flag N (or nested next statement) 1 mark

**Lookup Forename**

**LOOKUP or VLOOKUP** 1 mark  
 Randomly selected student number 1 mark  
 Looked up from range  
 ... N15ClassA.**CSV** cells A2:C93 1 mark  
     To return column 3 1 mark  
 ... False for exact match 1 mark

	F	G
	=IF(VLOOKUP(E4,N15ClassA.csv!\$A\$2:\$B\$93,2,FALSE)=C2,"Y","N")	=VLOOKUP(E4,N15ClassA.csv!\$A\$2:\$C\$93,3,FALSE)

**Lookup Surname**

**LOOKUP or VLOOKUP** 1 mark  
 Randomly selected student number 1 mark  
 Looked up from range  
 ... N15ClassA.**CSV** cells A2:D93 1 mark  
     To return column 4 1 mark  
 ... False for exact match 1 mark

**Manipulate name**

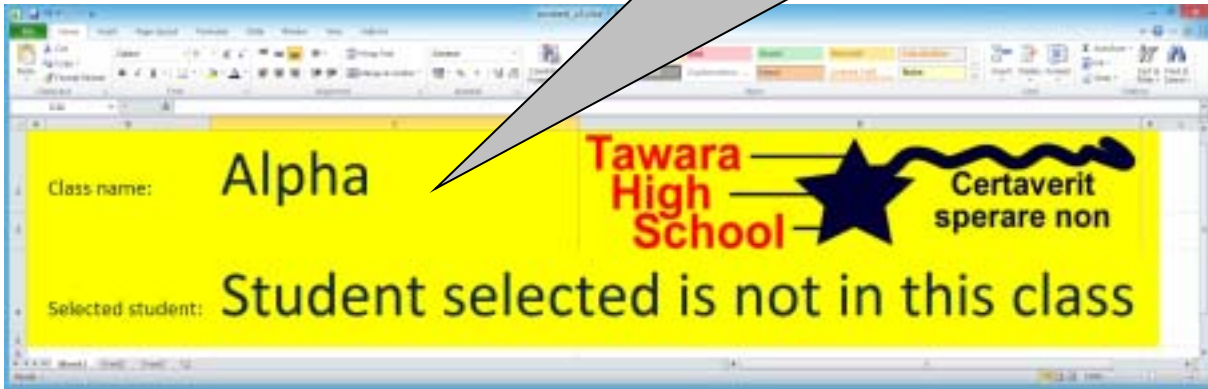
=Surname 1 mark  
 : Forename 1 mark

	H
1	
2	
3	
4	=VLOOKUP(E4,N15ClassA.csv!\$A\$2:\$D\$93,4,FALSE) =H4&": "&G4
5	Student selected is not in this class

Row and column headings 1 mark  
 Black and white screen shots with gridlines 1 mark

Page 8	Mark Scheme	Syllabus	Paper
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- Error message displayed 1 mark
- Yellow background & dark blue font 1 mark
- Logo and all text fully visible 1 mark
- Cell to enter class name with an appropriate label/instruction 1 mark



- Selected student displayed 1 mark
- With an appropriate label 1 mark
- Formatted with Surname first 1 mark
- ... then colon space 1 mark
- then Forename 1 mark
- Logo and all text fully visible 1 mark
- Large appropriate font 1 mark





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## Presentation (30 marks)

### Formatting for all slides

School logo	[1 mark]
School name	[1 mark]
Yellow / dark blue theme	[1 mark]
Slides easy to read with =<36 words in body text	[1 mark]
Master slide must be used	[1 mark]
Name & candidate details on master slide	[1 mark]
Presenter notes have more detail than slide contents	[1 mark]

### Content of their presentation

First slide with title of presentation	[1 mark]
By Candidate details	[1 mark]

### What is a master slide?

Stores theme	[1 mark]
Stores slide layouts	[1 mark]
Any 2 from:	[Max. 2 marks]
<ul style="list-style-type: none"> <li>• positioning of elements</li> <li>• background image</li> <li>• colour</li> <li>• font styles</li> <li>• animation effects</li> <li>• placeholder sizes</li> </ul>	
May be a hierarchy	[1 mark]
Primary master slide is dominant	[1 mark]
Others for different layouts of slide	[1 mark]
... take elements from main master slide	[1 mark]

### Why use master slide?

Consistency of presentation	[1 mark]
Less repetitive work/all background elements automatically shown	[1 mark]
Can place school logo/name on all slides with one action	[1 mark]
Maintain identical styles on all slides	[1 mark]
Give good impression to audience	[1 mark]

### How a master slide is applied to presentation

Before slides are created	[1 mark]
Package specific instructions with 1 mark per instruction	[Max. 5 marks]
Screen shot included with each/group of instruction/s	[1 mark]

### Printout as presenter notes

[1 mark]