

Cambridge IGCSE™

INFORMATION & COMMUNICATION TECHNOLOGY

0417/03

Paper 3 Data Analysis and Website Authoring

October/November 2022

MARK SCHEME

Maximum Mark: 80



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.

Cambridge International will not enter into discussions about these mark schemes.

Cambridge International is publishing the mark schemes for the October/November 2022 series for most Cambridge IGCSE™, Cambridge International A and AS Level components and some Cambridge O Level components.

This document consists of 21 printed pages.

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Generic Marking Principles

These general marking principles must be applied by all examiners when marking candidate answers. They should be applied alongside the specific content of the mark scheme or generic level descriptors for a question. Each question paper and mark scheme will also comply with these marking principles.

GENERIC MARKING PRINCIPLE 1:

Marks must be awarded in line with:

- the specific content of the mark scheme or the generic level descriptors for the question
- the specific skills defined in the mark scheme or in the generic level descriptors for the question
- the standard of response required by a candidate as exemplified by the standardisation scripts.

GENERIC MARKING PRINCIPLE 2:

Marks awarded are always whole marks (not half marks, or other fractions).

GENERIC MARKING PRINCIPLE 3:

Marks must be awarded **positively**:

- marks are awarded for correct/valid answers, as defined in the mark scheme. However, credit is given for valid answers which go beyond the scope of the syllabus and mark scheme, referring to your Team Leader as appropriate
- marks are awarded when candidates clearly demonstrate what they know and can do
- marks are not deducted for errors
- marks are not deducted for omissions
- answers should only be judged on the quality of spelling, punctuation and grammar when these features are specifically assessed by the question as indicated by the mark scheme. The meaning, however, should be unambiguous.

GENERIC MARKING PRINCIPLE 4:

Rules must be applied consistently, e.g. in situations where candidates have not followed instructions or in the application of generic level descriptors.

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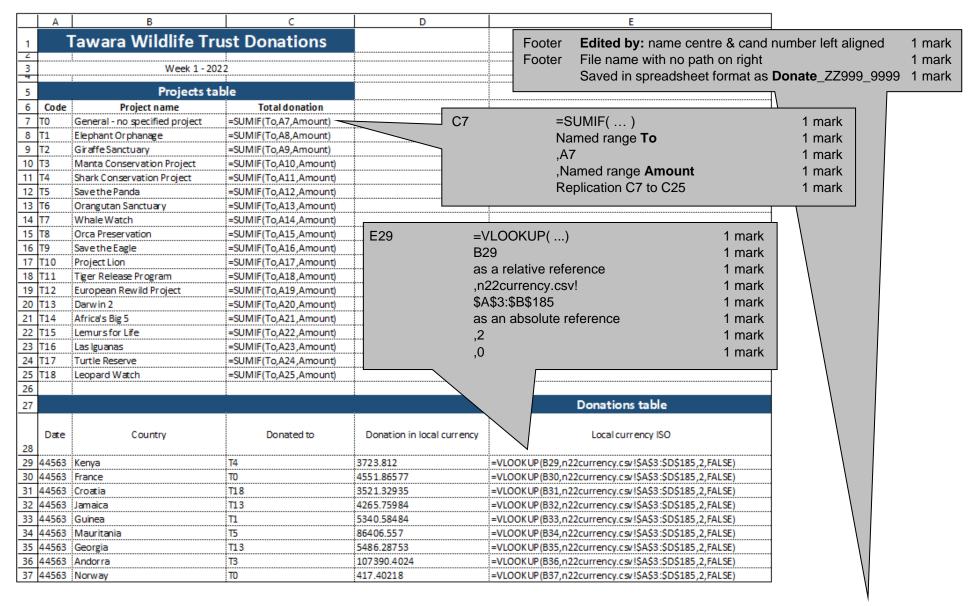
GENERIC MARKING PRINCIPLE 5:

Marks should be awarded using the full range of marks defined in the mark scheme for the question (however; the use of the full mark range may be limited according to the quality of the candidate responses seen).

GENERIC MARKING PRINCIPLE 6:

Marks awarded are based solely on the requirements as defined in the mark scheme. Marks should not be awarded with grade thresholds or grade descriptors in mind.

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	Α	В	С	D	E
38	44563	Fiji	TO	11755.37145	=VLOOKUP(B38,n22currency.csv!\$A\$3:\$D\$185,2,FALSE)
39	44563	Laos	T13	2530.31508	=VLOOKUP(B39,n22currency.csv!\$A\$3:\$D\$185,2,FALSE)
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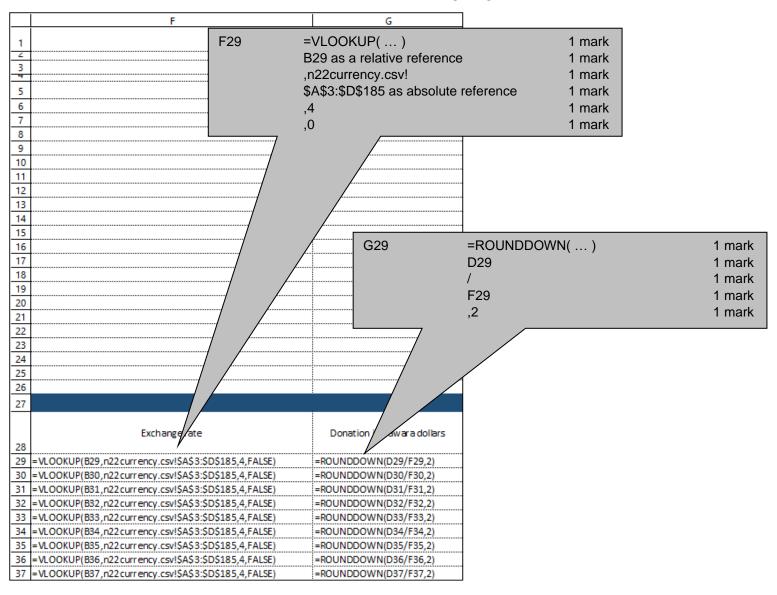
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-	F I I I I I I I I I I I I I I I I I I I	G G
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71	=VLOOKUP (B71,n22currency.csv!\$A\$3:\$D\$185,4,FALSE)	=ROUNDDOWN(D71/F71,2)
72	=VLOOKUP (B72,n22currency.csv!\$A\$3:\$D\$185,4,FALSE)	=ROUNDDOWN(D72/F72,2)
73	=VLOOKUP (B73,n22currency.csv!\$A\$3:\$D\$185,4,FALSE)	=ROUNDDOWN(D73/F73,2)
74	=VLOOKUP (B74,n22currency.csv!\$A\$3:\$D\$185,4,FALSE)	=ROUNDDOWN(D74/F74,2)
75	=VLOOKUP (B75,n22currency.csv!\$A\$3:\$D\$185,4,FALSE)	=ROUNDDOWN(D75/F75,2)
76	=VLOOKUP (B76,n22currency.csv!\$A\$3:\$D\$185,4,FALSE)	=ROUNDDOWN(D76/F76,2)
77	=VLOOKUP (B77,n22currency.csv!\$A\$3:\$D\$185,4,FALSE)	=ROUNDDOWN(D77/F77,2)
78	=VLOOKUP(B78,n22currency.csv!\$A\$3:\$D\$185,4,FALSE)	=ROUNDDOWN(D78/F78,2)

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F		l G	٦		
77 = VLOOKUP(B77,n22 curr ency.csv!\$A\$3:\$	D\$185.4.FALSE)	=ROUNDDOWN(D77/F77,2)	†		
78 = VLOOKUP(B78,n22 curr ency.csv!\$A\$3:\$		=ROUNDDOWN(D78/F78,2)			
79 = VLOOKUP(B79,n22 curr ency.csv!\$A\$3:\$		=ROUNDDOWN(D79/F79,2)			
80 = VLOOKUP(B80,n22currency.csv!\$A\$3:\$		=ROUNDDOWN(D80/F80,2)			
81 = VLOOKUP(B81,n22 curr ency.csv!\$A\$3:\$		=ROUNDDOWN(D81/F81,2)	"		
82 = VLOOKUP(B82,n22 curr ency.csv!\$A\$3:\$	D\$185,4,FALSE)	=ROUNDDOWN(D82/F82,2)	"		
83 = VLOOKUP(B83,n22 curr ency.csv!\$A\$3:\$	D\$185,4,FALSE)	=ROUNDDOWN(D83/F83,2)	"]		
84 = VLOOKUP(B84,n22currency.csv!\$A\$3:\$	D\$185,4,FALSE)	=ROUNDDOWN(D84/F84,2)	"]		
85 = VLOOKUP(B85,n22currency.csv!\$A\$3:\$	D\$185,4,FALSE)	=ROUNDDOWN(D85/F85,2)	"]		
86 = VLOOKUP(B86,n22currency.csv!\$A\$3:\$	D\$185,4,FALSE)	=ROUNDDOWN(D86/F86,2)			
87 = VLOOKUP(B87,n22currency.csv!\$A\$3:\$	D\$185,4,FALSE)	=ROUNDDOWN(D87/F87,2)			
88 =VLOOKUP(B88,n22currency.csv!\$A\$3:\$	D\$185,4,FALSE)	=ROUNDDOWN(D88/F88,2)			
89 = VLOOKUP(B89,n22currency.csv!\$A\$3:\$	D\$185,4,FALSE)	=ROUNDDOWN(D89/F89,2)			
90 = VLOOKUP(B90,n22currency.csv!\$A\$3:\$	D\$185,4,FALSE)	=ROUNDDOWN(D90/F90,2)			
91 =VLOOKUP(B91,n22currency.csv!\$A\$3:\$	D\$185,4,FALSE)	=ROUNDDOWN(D91/F91,2)			
92 =VLOOKUP(B92,n22currency.csv!\$A\$3:\$	D\$185,4,FALSE)	=ROUNDDOWN(D92/F92,2)			
93 =VLOOKUP(B93,n22currency.csv!\$A\$3:\$	D\$185,4,FALSE)	=ROUNDDOWN(D93/F93,2)			
94 = VLOOKUP(B94,n22currency.csv!\$A\$3:\$	D\$185,4,FALSE)	=ROUNDDOWN(D94/F94,2)			
95 =VLOOKUP(B95,n22currency.csv!\$A\$3:\$	D\$185,4,FALSE)	=ROUNDDOWN(D95/F95,2)			
96 =VLOOKUP(B96,n22currency.csv!\$A\$3:\$	D\$185,4,FALSE)	=ROUNDDOWN(D96/F96,2)			
97 =VLOOKUP(B97,n22currency.csv!\$A\$3:\$	D\$185,4,FALSE)	=ROUNDDOWN(D97/F97,2)			
98 =VLOOKUP(B98,n22currency.csv!\$A\$3:\$	D\$185,4,FALSE)	=ROUNDDOWN(D98/F98,2)			
99 =VLOOKUP(B99,n22currency.csv!\$A\$3:\$	D\$185,4,FALSE)	=ROUNDDOWN(D99/F99,2)			
100 = VLOOKUP(B100,n22currency.csv!\$A\$3:	\$D\$185,4,FALSE)	=ROUNDDOWN(D100/F100,2)			
101 = VLOOKUP(B101,n22currency.csv!\$A\$3:	\$D\$185,4,FALSE)	=ROUNDDOWN(D101/F101,2)			
102 = VLOOKUP(B102,n22currency.csv!\$A\$3:	\$D\$185,4,FALSE)	=ROUNDDOWN(D102/F102,2)			
103 = VLOOKUP(B103,n22currency.csv!\$A\$3:	\$D\$185,4,FALSE)	=ROUNDDOWN(D103/F103,2)			
104 = VLOOKUP(B104,n22currency.csv!\$A\$3:	\$ D\$185,4,FALSE)	=ROUNDDOWN(D104/F104,2)			
105 = VLOOKUP(B105,n22currency.csv!\$A\$3:	\$ D\$185,4,FALSE)	=ROUNDDOWN(D105/F105,2)			
106 = VLOOKUP(B106,n22currency.csv!\$A\$3:	\$ D\$185,4,FALSE)	=ROUNDDOWN(D106/F106,2)	Replication	columns E, F, G	1 mark
107 = VLOOKUP(B107,n22currency.csv!\$A\$3:	\$ D\$185,4,FALSE)	=ROUNDDOWN(D107/F107,2)	Orientation	Landscape	1 mark
108 =VLOOKUP(B108,n22currency.csv!\$A\$3:	\$ D\$185,4,FALSE)	=ROUNDDOWN(D108/F108,2)	Officiation	Row & column heads & fully visible	
109 = VLOOKUP(B109,n22currency.csv!\$A\$3:	\$ D\$185,4,FALSE)	=ROUNDDOWN(D109/F109,2)		Now & Column neads & fully visible	1 mark
110 = VLOOKUP(B110,n22currency.csv!\$A\$3:	\$ D\$185,4,FALSE)	=ROUNDDOWN(D110/F110,2)			
111 = VLOOKUP(B111,n22currency.csv!\$A\$3:	\$ D\$185,4,FALSE)	=ROUNDDOWN(D111/F111,2)			
112 =VLOOKUP(B112,n22currency.csv!\$A\$3:	\$ D\$185,4,FALSE)	=ROUNDDOWN(D112/F112,2)			
113 =VLOOKUP(B113,n22currency.csv!\$A\$3:	\$ D\$185,4,FALSE)	=ROUNDDOWN(D113/F113,2)			
114 = VLOOKUP(B114,n22currency.csv!\$A\$3:		=ROUNDDOWN(D114/F114,2)			
115 = VLOOKUP(B115,n22currency.csv!\$A\$3:	\$D\$185,4,FALSE)	=ROUNDDOWN(D115/F115,2)			

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Tawa	ra Wildlife	Trust Do	onations							
		- 2022								
	Project	c table	:	<u></u>						
Code	Project n		Total donation		ļ					
0	General - no specific		\$68,571.20		<u> </u>					
1	Elephant Orphanage		\$7,075.50			ļ				
<u>.</u> 2	· •	=	1,073.30			ļ				
3	Giraffe Sanctuary Manta Conservation	Project	 \		<u> </u>					
4	Shark Conservation		: 3 \							1
* 5	Save the Panda	Formatti	ing Co	ells A1:C1	, A3:C3,	A5:C5 a	and A27:0	S27 merged	1 mark	
	Orangutan Sanctua		R	ows 2 & 4	smaller	in height	than row	3	1 mark	
	Whale Watch					_		e background	1 mark	
7 3	Orca Preservation						i on a blu	e background		
) }	Save the Eagle		R	ow 1 - larg	ge 20 poi	nt text			1 mark	
, 10	· · · · · · · · · · · · · · · · · · ·		R	ow 1, 3, 5	and 6 ce	entre alic	ned		1 mark	l
11	Project Lion Tiger Release Progr			ow 6 bold			,		1 mark	l
12	European Rewild P					_	_	_		
	Darwin 2		Fo	ormatting	applied t	o Row 2	7 to matc	h row 5	1 mark	
	Africa's Big 5		: S12,094,27	:	•	:				J
	Lemurs for Life		\$0.00	÷	÷					
	Las Iguanas		\$153,632.82	٠						
	Turtle Reserve		\$4,363.46							
	Leopard Watch		\$10,747.05							
	Leopard Water		210,747.33							
			Donations t	able	·					
				Donation in	Local	Exchange	Do nation in			
Date	Countr	у	Donated to	local currency	currency	rate	Tawara			
				local currency	ISO	rate	dollars			
2/01/2022	Kenya		T4	3723.812	KES	130.227	\$28.59			
2/01/2022	France		TO	4551.86577	EUR	1.124	\$4,049.70			
2/01/2022			T18	3521.32935		8.579				
2/01/2022	Jamaica		T13	4265.75984	JMD	166.711	\$25.58			
2/01/2022	Guinea		T1	5340.58484	GNF	736.977	\$7.24			
	Mauritania		T5	86406.557	MRO	31.835	\$2,714.20			
2/01/2022	Georgia		T13	5486.28753	GEL	3.91				
2/01/2022			T3	107390.4024	EUR	1.124	\$95,543.06			
2/01/2022				<u> </u>		205	- C	O 0 - 111 O 1		
2/01/2022	Fiji	F	ormatting					G as \$ with 2dp	1 m	nark
2/01/2022	· 🌣			Text	wrapped	d in D28:	G28		1 m	nark
2/01/2022	Ethiopia						entre & n	niddle	1 m	nark
2/01/2022						_		ildule		
2/01/2022	Somalia				rait single				1 m	nark
	Korea (South)			No re	ow and c	olumn h	eadings &	& fully visible	1 m	nark
3/01/2022	Turkmenistan							,		
3/01/2022	Ukraine		TO			33.368	\$66.71		- 	
3/01/2022			T12		MVR	18.932	\$148.13			
3/01/2022	Peru			25676.85744	PEN	4.147	\$6,191.67			
3/01/2022	Lesotho		116	3330.2996	LSL	22.36	\$148.94			

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03/01/2022	Cayman Islands	T2	2741.9819	KYD	1.015	\$2,701.46
	Falkland Islands	TO	15759.40856	FKP	1.024	\$15,390.04
03/01/2022	Nepal	T5	3015.49482	NPR	149.159	\$20.21
03/01/2022	Colombia	T16	4704.39305	COP	4708.458	\$0.99
03/01/2022	Argentina	T9	139018.2224	ARS	79.369	\$1,751,54
03/01/2022	Lebanon	T16	3562.07964	LBP	1848.569	\$1.92
03/01/2022	Latvia	T17	1185.3704	EUR	1.124	\$1,054.60
03/01/2022	Tajikistan	T5	17911.88568	TJS	12.51	\$1,431.80
03/01/2022	Gambia	T3	240.90561	GMD	62.705	\$3.84
03/01/2022		T6	7039,93968	SLL	11729.488	\$0.60
03/01/2022	Canada	T9	187.67892	CAD	1.716	\$109.37
03/01/2022	Kenya	TO	3692.9582	KES	130.227	\$28.35
04/01/2022	Egypt	TO	14373.52692		19.385	\$741.47
04/01/2022		TO	3531.11344	JMD	166.711	\$21.18
04/01/2022	United States of America	T13	20688.62184		1.229	\$16,833,70
04/01/2022		T8	14275.92456		4625.35	\$3.08
04/01/2022	Panama	T10	25518.50262		1.221	\$20,899.67
04/01/2022		T14	1255,4256		1.716	\$731.60
04/01/2022		T13	105.5998		1.124	\$93.95
04/01/2022		T17	3719.15864		1.124	\$3,308.86
04/01/2022		T2	9153.07062	:	1.124	\$8,143.30
		å	1247.1342		·	\$1,217.90
04/01/2022		T14 T7	3152.33625		1.024 736.977	\$4.27
04/01/2022		T13	700.35316	å	1.024	\$683.93
04/01/2022		TO	1322.40848	ò	4.393	\$301.02
04/01/2022		T16	264838.3415		8.432	\$31,408.72
		ò				
04/01/2022		T18 T14	7988.90976 5702.33196		1.124 1.124	\$7,107.57 \$5,073.24
				ò	1.124	\$1,097.21
04/01/2022	cyprus	T0	1233.2656			
		T5 T0	383813.8282	o	93.023	\$4,126.00
	9		21318.07392		1.124	\$18,966.25
04/01/2022		T11	2287.63224		4694.352	\$0.48
04/01/2022	/_	T8	4424.77212		1.734	\$2,551.77
05/01/2022		TO	845.8866	i	12.559	\$67.35
05/01/2022		T10	3601.21732		93.545	\$38.49
05/01/2022		T9	11821.39776	•	4.472	\$2,643.42
05/01/2022	Jordan	T14	1543.16208		0.867	\$1,779.88
05/01/2022		T18	13390.80912	&	4.147	\$3,229.03
05/01/2022		TO	771.87328	ķ	51765.473	\$0.01
05/01/2022		12	7531.40736		1.124	\$6,700.54
05/01/2022		T5	1520.81696		9.436	\$161.17
06/01/2022	Uruguay	T4	8095.46544		53.059	\$152.57
06/01/2022		TO	5063.36148	EUR	1.124	\$4,504.77
	Congo/Kinshasa	T3	1673.2681	å	736.977	\$2.27
06/01/2022		T1	5320.72376		4616.695	\$1.15
06/01/2022		T14	1946.32964		18.932	\$102.80
		T14	3893.58918	PAB	1.221	\$3,188.85
	New Zealand	17	40205.32776	å	2.023	\$19,874.11
06/01/2022		T6	22794.30576	SDG	67.995	\$335.23
06/01/2022	Egypt	T11	883.88289	EGP	19.385	\$45.59

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06/01/2022	Samoa	TS	20033.6724	WST	3.428	\$5,844.12
06/01/2022	Isle of Man	TS	5085.66164	IMP	1.024	\$4,966.46
06/01/2022	Monaco	T16	4934.88684	EUR	1.124	\$4,390.46
06/01/2022	South Africa	T16	6402.98448	ZAR	22.142	\$289.17
06/01/2022	Slovakia	TO	8026.40232	EUR	1.124	\$7,140.92
07/01/2022	Turkmenistan	T4	16616.76048	TMT	4.304	\$3,860.77
07/01/2022	United Arab Emirates	T3	23878.76544	AED	4.511	\$5,293.45
07/01/2022	Burundi	T16	332866.0614	BIF	736.977	\$451.66
07/01/2022	Spain	T1	7943.43456	EUR	1.124	\$7,067.11
07/01/2022	Serbia	TO	6831.98352	RSD	132.305	\$51.63
07/01/2022	Bahamas	T16	142410.7712	BSD	1.221	\$116,634.53
07/01/2022	Isle of Man	T8	4902.00004	IMP	1.024	\$4,787.10
07/01/2022	Kuwait	TO TO	2015.15216	KWD	0.384	\$5,247.79
07/01/2022	Cambodia	T9	47228.70733	KHR	4980.111	\$9.48
07/01/2022	Spain	T4	22115.0232	EUR	1.124	\$19,675.28
07/01/2022	Kyrgyzstan	TO	2295.53396	KGS	95.85	\$23.94
07/01/2022	Kosovo	T13	1816.4402	EUR	1.124	\$1,616.05

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	Α	В	С						
1	Tawara Wildlife Trust Donations								
2									
3	Week 2 - 2022								
4									
5	Projects table								
6	Code	Project name	Total donation						
7	T11	Tiger Release Program	15,000.00						
11	T4	Shark Conservation Project	15,179.01						
17	T10	Project Lion	21,775.69						
18	TO \	General - no specified project	26,457.09						
	Extract N	ame, centre & candidate number on	left in header	1 mark					
	Extract >= 15000 1								
	Data sorted into descending order of Project name 1								
	Si	ngle page, row & column headings	& fully visible	1 mark					

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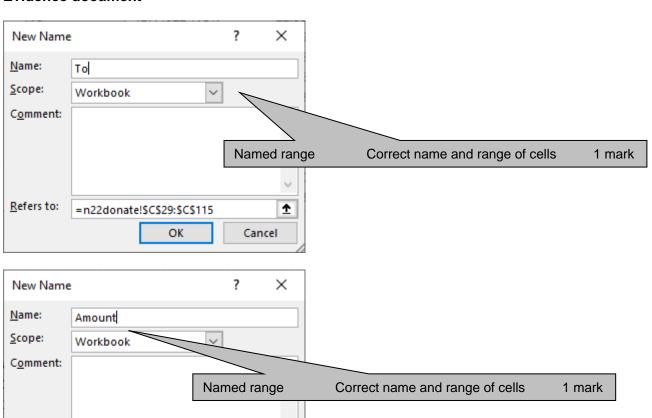
Refers to:

=n22donate!\$G\$29:\$G\$115

OK

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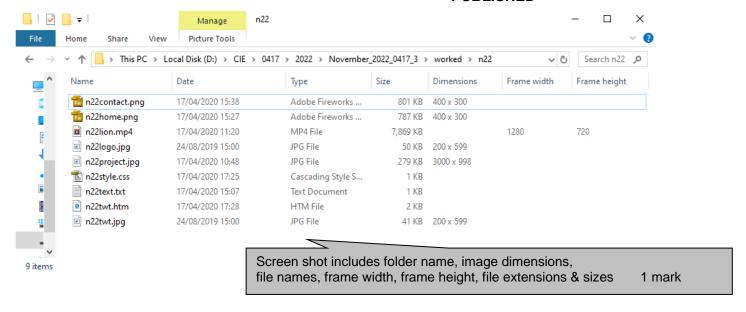
Evidence document



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<u>+</u>

Cancel



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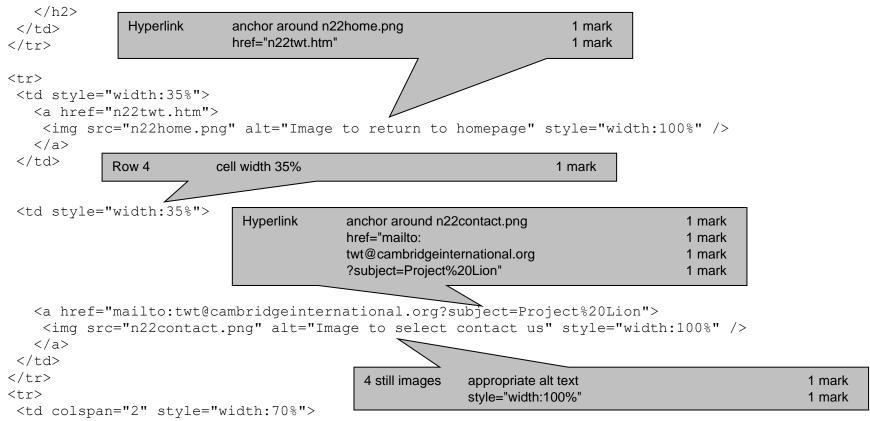
```
<!DOCTYPE html>
<html>
<head>
 <link rel="stylesheet" type="text/css" href="n22style.css">
</head>
                          Stylesheet n22style.css attached
               Head section
                                                              1 mark
<body>
  Table
                          width=100%
                          no letters visible
                                                              1 mark
   <t.r>
    width=30%
               Row 1 left
                                                              1 mark
                          rowspan=5
                                                              1 mark
      <imq src="n22logo.jpg" alt="Logo for Tawara Wildlife Trust" style="width:100%;">
    width=70%
               Row 1 right
                                                              1 mark
                          colspan=2
                                                              1 mark
    <imq src="n22project.jpq" alt="Title for Project Lion" style="width:100%;">
    Row 2
                          colspan=2
                                                              1 mark
   video <...> tag used ...
                                                              1 mark
                          ... width="100%"
                                                              1 mark
                          source<...> tag used ...
                                                              1 mark
                          src="n22lion.mp4"
                                                              1 mark
                          type="video/mp4"
                                                              1 mark
                          appropriate error message
                                                              1 mark
   <t.r>
    <video width="100%" controls>
```

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```
<source src="n22lion.mp4" type="video/mp4">
    Your browser does not support this video file type.
    </video>

1 mark
```

<h2>Project Lion is a conservation programme. This was launched in 2002 as a joint initiative between local governments in East Africa. The project aims to ensure that a viable population of wild lions can remain in their natural habitats, protecting them from extinction and reducing their impact and interaction with humans. The aim is to develop and enhance the natural wildlife reserves and eco-systems. The fund has set up a Lion Protection Force to combat poachers and to fund the relocation of villagers to minimize human-lion conflicts.

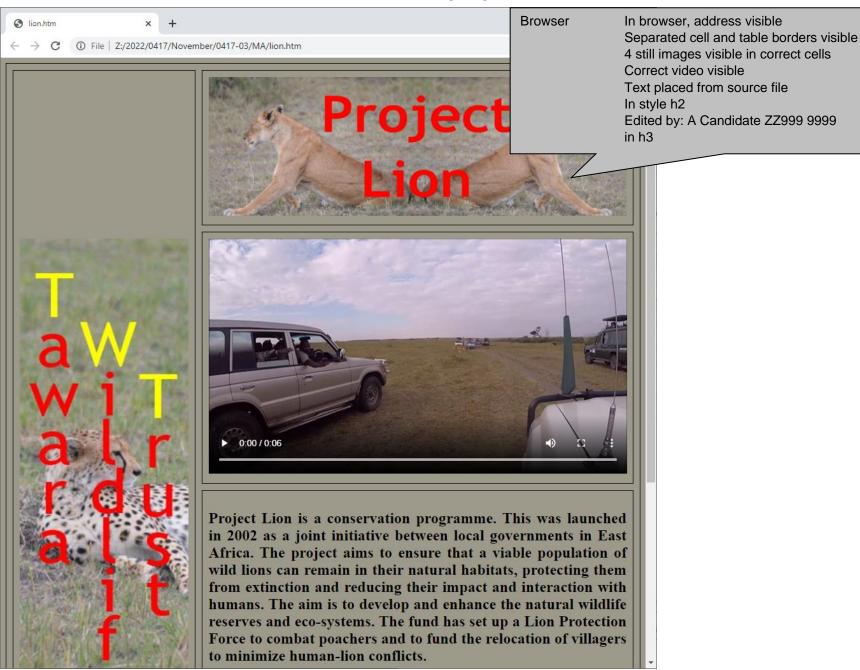


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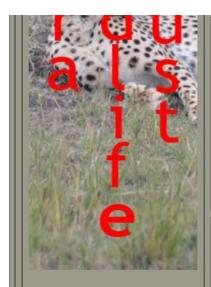
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1 mark

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Project Lion is a conservation programme. This was launched in 2002 as a joint initiative between local governments in East Africa. The project aims to ensure that a viable population of wild lions can remain in their natural habitats, protecting them from extinction and reducing their impact and interaction with humans. The aim is to develop and enhance the natural wildlife reserves and eco-systems. The fund has set up a Lion Protection Force to combat poachers and to fund the relocation of villagers to minimize human-lion conflicts.





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