

Cambridge IGCSE™

INFORMATION AND COMMUNICATION TECHNOLOGY

0417/22

Paper 2 Document Production, Databases and Presentations

May/June 2023

MARK SCHEME

Maximum Mark: 70



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 May/June 2023 series for most Cambridge IGCSE, Cambridge International A and AS Level and Cambridge Pre-U components, and some Cambridge O Level components.

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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.

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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Task 2 - Word Processing

Question	Answer	Ма	rks
1	File saved as VCYCLING with evidence of file type		1
2			3
	Report by: [space] entered accurately in header	1	
	Name, centre number, candidate number entered after <i>Report by:</i> right aligned, no other items	1	
	Automated page numbers right aligned in footer, no other items	1	
3			2
	Section break – applied to correct text	1	
	2 columns, 2 cm column spacing	1	
4			2
	VC-subhead style created, named correctly, based on normal/default	1	
	VC-subhead – serif 16 pt, centred, bold, italic, single line, 0 pt before, 8 pt after	1	
5	VC-subhead applied consistently to all 4 subheads, matches style defined in EV 2		1
6	Complete paragraph moved, now under subheading <i>Benefits</i> with spacing maintained		1
7	Correct image inserted in correct paragraph		1
8	Image rotated 180°		1
9			2
	Image resized to 4 cm wide with aspect ratio maintained	1	
	Image aligned to top of text and right margin with text wrapped	1	
10			2
	Table – row 1 of table merged and centred	1	
	Table – row 1 of table grey shading applied	1	
11	Sorted descending order of <i>Download Growth</i> , integrity maintained		1
12			2
	Table complete and intact, new row inserted as last row of table	1	
	Text entered accurately in new row	1	

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Question	Answer	Marks
13		3
	Table – VC-table style applied rows 2 to 8 only	1
	3–4pt external border only, no internal gridlines printed	1
	Table borders and all data fit within column width, all data on one line, 8pt below table	1
14	Document spell checked and proofread – layout complete and paragraphs intact	1

Task 3 - Database

Question	Answer	Ма	rks
15			2
	Race table – 10 field names as given, correct data types, primary key Bib_No	1	
	Results table – Race_No field set as primary key	1	
16	Clubs table – 6 field names as given, correct data types, primary key Club_ID		1
17	1-to-Many relationship 1- Club_ID (clubs table) and Club_Code (race table)		1
18			3
	Columnar form, all 10 fields from race table	1	
	1 different formatting feature	1	
	1 different formatting feature max 2 from: Appropriate title Meaningful field labels Appropriate field lengths to match data Font style/size/colour change	1	
19			2
	New record accurate – RCC11 Burns Amy 1208 1943 0.678 02:20:05 Grand Veteran 80 to 89 Female	1	
	New record 1208 Female inserted only once, record 1010 still present	1	

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Question	Answer	Marks
20		6
	Report title Master and Junior Outcomes 100% accurate, larger font, fully visible, top of page	1
	Select records – <i>Area</i> ends with the text land	1
	Select records – Category is Junior or Master	1
	Sort ascending order of <i>Category</i>	1
	Correct fields (7), correct order, headings match data – First_Name Last_Name Gender Category Area Country Race_Time	1
	Printed in portrait, fits a single page, all fields present, no truncation	1
21		14
	Report footer – Name, centre number, candidate number in footer, appears on every page	1
	Report title GBR Category Results – 100% accurate, larger font, fully visible	1
	Calculated field – field heading LPF_Uplift – 100% accurate	1
	Calculated field – uplift calculated – correct values	1
	Calculated field – LPF_Uplift values display in the format hh:mm:ss	1
	Select records – Country_Code is GBR	1
	Select records – YOB is <=1960	1
	Records sorted on 2 fields – ascending on <i>Country</i> and descending order of <i>LPF_Ratio</i>	1
	Correct 8 base fields in correct order Bib_No Gender YOB Category LPF_Ratio Club_Name Country Race_Time (LPF_Uplift)	1
	Landscape, single page wide, all base fields present, no truncation	1
	Calculation – correct longest race time (03:07:42)	1
	Calculation – end of report only, fully visible, right aligned with times in Race_Time column	1
	Calculation – label Longest race time – 100% accurate, fully visible to the left of value	1
	Screenshot evidence of database formula to calculate the max race time	1

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Task 4 - Presentation

Question	Answer	Ма	rks
22	Slides imported (6), consistent title/bullet layout, no blank slides, no text changed		1
23			2
	Header – automated slide numbers top left, same position on every slide, no overlap	1	
	Footer – name, centre number, candidate number bottom left, same position on every slide, no overlap	1	
24			2
	Vertical bar chart created using correct data	1	
	App labels on category axis, no legend displayed	1	
25			2
	Chart title Top Fitness App Downloads 2022 – 100% accurate	1	
	Accurate value axis title Million	1	
26	Data values only displayed along the top of each bar		1
27			2
	Value axis (y-axis) displays minimum 0, maximum 15	1	
	Value axis (y-axis) increments set at 3	1	
28	Chart on correct slide, left of bullets, chart data fully visible, no overlap/split words		1
29			4
	Square shaped action button inserted top right of correct slide	1	
	Text on action button Top Fitness Trends – 100% accurate and fits within button	1	
	Evidence of Action button linked	1	
	action button linked to open correct file j2322trends.rtf	1	
30	Evidence of slide show set so all slides loop continuously on-screen		1
31			2
	Slide Virtual Cycling Trends (3) printed as full page single slide in landscape	1	
	All slides printed as handouts, portrait orientation with 3 slides to page	1	_

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1 mark

1 mark

Report by: name, centre number, candidate number

Text Report by:[space] entered accurately

2 columns, 2 cm column spacing

Name, centre number, candidate number right aligned, no other items

r iriuui Cycii/12

Virtual cycling is a growing fitness trend which is proving to be the best development in cycling for many years. It has created a new way in ation has nearly tripled since 2019. Much of this interest has been driven by technology Columns

to motivate the cyclist. Section break – applied to correct text 1 mark

erest in the sport of cycling. New online platforms enable cyclists to play games, train, om the comfort of their home. In recent surveys, virtual cycling ranked in the top 6

worldwide no.

Subheadings (4)

VC-subhead matches style defined in EV2, applied consistently to all 1 mark

Cycling is an excellent form of exercise and a highly effective way to burn fat, improve fitness and tone muscle. Virtual cycling enables nervous and inexperienced cyclists to participate in simulated races in large groups without fear of accidents. They will also not have to deal with the potentially intimidating experience of traveling to an outdoor event and negotiating the start of a mass participation event.

Another major benefit is safety, stationary bike there is no traffic.

riding indoors on a ads or weather to re often

1 mark

Complete paragraph moved to correct location with spacing maintained

such as 1 mark e easily

For competing athletes this technology can replace the need to travel to different locations to compete at major competitions. This saves travelling time and costs. Coaching staff can assist athletes remotely regardless of their location and the time zones involved. This greater flexibility means athletes can train and compete in a greater variety of settings than would otherwise be possible.

Drawbacks

There is a danger that some cyclists may push themselves beyond their own safe physical limits and experience an adverse cycling at home without supervision or support. Data security is another issue as app users provide large amounts of data which are at risk from hacking.

Cheating has become an issue in virtual cycling races as prize money has increased the incentive to do well During competitions online platforms log the data from riders via power meters. Some competitors have edited their nower data lone to show a substant



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Image

Image inserted in correct paragraph 1 mark Image rotated 180° 1 mark Aligned to top of text, right of column, text wrapped 1 mark Resized to 4 cm wide, aspect ratio maintained 1 mark

Equipment

Online training platforms monitor power, speed, pace and heart rate using sensors on a bicycle set up as a static trainer. A smart phone, tablet, computer or Smart TV are required to run the player, along with a monthly subscription to a training app. The

Footer

Automated page number right aligned, no other items 1 mark

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Report by: name, centre number, candidate number

Table

Table complete and intact, new row inserted as last row of table

Text entered accurately in new row **Americas | 7% | 19%**1 mark

Table sorted, descending order *Download Growth*, integrity maintained

Row 1 merged and centred

Row 1 grey shading applied

Borders & data fit within column width, text on one line, 8 pt below table

1 mark

1 mark

1 mark

1 mark

1 mark

1 mark

Smart turbo trainers use Bluetooth technology to interact with a virtual cycling sports app. The top trainers are direct-drive which involves removing the rear wheel of a standard bicycle and attaching the bicycle chain directly to the trainer. These offer a more realistic feel and are capable of simulating conditions such as hill climbs, drafting and changes in the road surface. They also record a wealth of performance data. Some virtual training platforms utilise wearable technology such as virtual reality (VR) headsets. These fully immerse the user in the virtual environment.

Virtual Cycling Apps

Virtual cycling applications have become very popular. They enable cyclists to connect and ride together through virtual worlds. The gaming nature of the app has the ability to motivate users and distract them from the boredom and suffering of a hard indoor workout. This can result in more prolonged or intense

Successful performance is often rewarded with points or currency that can be used to make purchases such as ike frames. Common video game features such as power-mprove performance for a short period are also available. app downloads and daily usage has increased cally in recent years. The largest growth of downloads and ge has been seen in India.

rk Global (Cycle App Growth	1
Region	Daily Usage	Download Growth
India	72%	137%
Middle East and North Africa	26%	52%
Asia Pacific	23%	45%
Rest of the World	22%	40%
Europe	10%	23%
Americas	7%	19%

Data is collected from the trainer and processed by the app. The effort the rider puts in is measured and the resistance is adjusted to simulate cycling in the real world. The rider controls an avatar whilst watching the game running on a computer screen. They must pedal hard to make their avatar move faster to beat the competition. New routes and training environments are being developed continuously.

Nothing can beat cycling outside in a social environment surrounded by nature and the elements. It is an invigorating and healthy experience and has many physical, mental and social benefits. It can have a calming effect and alleviate feelings of depression and anxiety. Virtual cycling is set to complement outdoor cycling but not replace it. Time on a turbo trainer paired with a gaming experience is an ideal alternative when time is limited or the weather prevents riding outside.

Document Presentation

Document complete/paragraphs intact, landscape, pages and columns aligned top, consistent margins, no widows/orphans, table not split, no blank pages, pre-applied styles unchanged with consistent spacing, space below columns less than 6 pt 1 mark

Task 3 - Database

Title

Title 100% accurate, larger font, fully visible 1 mark

Master and Junior Outcomes

First_Name	Last_Name	Gender	Category	Area	Country	Race_Time
Jolande	Gustafsson	Female	Junior	Halland	Sweden	02:10:47
Ludvig	Germundson	Male	Junior	Halland	Sweden	02:19:39
Mattheo	Wieser	Male	Junior	Burgenland	Austria	01:57:06
Lawrence	Inglis	Male	Junior	Queensland	Australia	01:49:55
Remington	Knowles	Male	Junior	Auckland	New Zealand	02:03:48
Natascha	Schneider	Female	Junior	Burgenland	Austria	02:13:12
Haakon	Cruickshank	Male	Junior	Jutland	Denmark	01:45:05
Arpad	Kluge	Male	Junior	Newfoundland	Canada	02:13:27
Ayden	Bredenberg	Male	Master	Jutland	Denmark	03:01:51
Cornelius	Jepperson	Male	Master	Jutland	Denmark	03:11:36
Philippe	Sadesky	Male	Master	Jutland	Denmark	01:52:26
Margareta	Anderberg	Female	Master	Halland	Sweden	02:31:57
Melker	Van Jaarsveldt	Male	Master	Halland	Sweden	01:34:30
Bjorn	Amundsen	Male	Master	Jutland	Denmark	02:09:37
Dante	Carlstrom	Male	Master	Halland	Sweden	01:48:56
Bastiaan	Vandenberg	Male	Master	Queensland	Australia	02:48:51
Agneta	Beckstrand	Female	Master	Halland	Sweden	01:05:31
Jenaya	Christoferson	Female	Master	Halland	Sweden	01:44:18
Larry	Armstrong	Male	Master	Burgenland	Austria	02:05:34
Miguel	Croken	Male	Master	Newfoundland	Canada	01:15:38
Katharina	Schneider	Female	Master	Burgenland	Austria	01:44:04
Magdalena	Flaming-Grabner	Female	Master	Burgenland	Austria	02:52:52
Alexina	Mislan	Female	Master	Auckland	New Zealand	01:41:49
Maverick	Stallard	Male	Master	Auckland	New Zealand	03:14:24
Elias	Bergman	Male	Master	Auckland	New Zealand	01:34:16
Jett	Anderson	Male	Master	Auckland	New Zealand	01:36:02
Sarah	Brereton	Female	Master	Auckland	New Zealand	02:18:25
Colby	Barraclough	Male	Master	Newfoundland	Canada	01:26:51
Sandra	Bunnin	Female	Master	Newfoundland	Canada	02:23:24
Jill	Campbell	Female	Master	Newfoundland	Canada	02:24:43
Joshua	Barnes	Male	Master	Newfoundland	Canada	02:05:42
Johannes	Baumgartner	Male	aster	Burgenland	Austria	02:33:36

Select records (32):

Area ends with the text land 1 mark
Category is Junior or Master 1 mark

Sort ascending on *Category* 1 mark Specified fields, correct order, headings match the data 1 mark Portrait, fits a single page, all fields present, no truncation 1 mark

Name, centre number, candidate number

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Title

Title 100% accurate, larger font, fully visible 1 mark

GBR Category Results

Bib_No	Gender	YOB	Category	LPF_Ratio	Club_Name
1168	Male	1960	Master	0.908	Easy Riders
1239	Male	1960	Master	0.908	Tubular Belles
1255	Male	1950	Veteran	0.843	Easy Riders
1176	Female	1960	Master	0.787	Tubular Belles
1055	Female	1958	Master	0.778	Easy Riders
1116	Male	1932	Super Veteran	0.622	Easy Riders
1013	Female	1934	Grand Veteran	0.576	Tubular Belles
1123	Female	1960	Master	0.908	Team Shamrock Spinners
1106	Male	1957	Master	0.891	Team Shamrock Spinners
1227	Male	1957	Master	0.891	Team Shamrock Spinners
1158	Male	1944	Veteran	0.788	Team Shamrock Spinners
1137	Male	1941	Grand Veteran	0.755	Team Shamrock Spinners
1249	Female	1933	Super Veteran	0.562	Team Shamrock Spinners
1267	Male	1954	Master	0.872	VeloSterling Procycles
1081	Male	1953	Veteran	0.866	VeloSterling Procycles
1195	Male	1953	Veteran	0.866	VeloSterling Procycles
1162	Male	1953	Veteran	0.866	VeloSterling Procycles
1089	Male	1950	Veteran	0.843	VeloSterling Procycles
1272	Male	1947	Veteran	0.818	VeloSterling Procycles

LPF_Ratio stored and displayed to 3 decimal places

1 mark
Sort ascending on Country and descending order of LPF_Ratio

1 mark
Specified base fields (8), all fields correct order, headings match data
Landscape, single page wide, all base fields present, no truncation

1 mark
Name, centre number, candidate number in footer, appears on every page

1 mark

Name, centre number, candidate number

Calculated field

Heading 100% accurate 1 mark Uplift calculated - correct values 1 mark Displays in the format hh:mm:ss 1 mark

	_	
Country	Race_Time	LPF_Uplift
England	01:58:21	01:47:28
England	02:27:40	02:14:05
England	03:07:42	02:38:14
England	02:17:28	01:48:11
England	02:17:47	01:47:12
England	01:14:44	00:46:29
England	01:03:40	00:36:40
Northern Ireland	02:26:37	02:13:08
Northern Ireland	01:55:27	01:42:52
Northern Ireland	01:26:07	01:16:44
Northern Ireland	01:12:47	00:57:21
Northern Ireland	01:51:01	01:23:49
Northern Ireland	02:42:01	01:31:03
Scotland	03:06:46	02:42:52
Scotland	01:32:06	01:19:46
Scotland	01:52:24	01:37:20
Scotland	02:50:50	02:27:57
Scotland	02:34:12	02:09:59
Scotland	02:21:01	01:55:21
~		

Select records (42):

Country_Code is GBR 1 mark YOB is <=1960 1 mark

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New	record 1208 ir	nserted onl	y once, record 1010	still present	1 mark			
в				·	Name	Country	Race_Time	LPF_Uplift
1226	N		√eteran	0.818	VeloSterling Procycles	Scotland	01:55:37	01:34:34
1315	1		Veteran	0.818	VeloSterling Procycles	Scotland	01:18:14	01:04:00
1180		/ 6	Veteran	0.808	VeloSterling Procycles	Scotland	02:01:08	01:37:53
1166		1943	Grand Veteran	0.778	VeloSterling Procycles	Scotland	02:27:36	01:54:50
1014		1954	Master	0.757	VeloSterling Procycles	Scotland	01:49:00	01:22:31
1082 /	M	1937	Grand Veteran	0.702	VeloSterling Procycles	Scotland	01:05:12	00:45:46
1077	emale	1944	Veteran	0.687	VeloSterling Procycles	Scotland	01:49:50	01:15:27
1208 ¹	Female	1943	Grand Veteran	0.678	VeloSterling Procycles	Scotland	02:20:05	01:34:59
1010	Female	1943	Grand Veteran	0.678	VeloSterling Procycles	Scotland	01:52:01	01:15:57
1290	Male	1935	Grand Veteran	0.673	VeloSterling Procycles	Scotland	02:53:17	01:56:37
1080	Female	1935	Grand Veteran	0.590	VeloSterling Procycles	Scotland	01:44:32	01:01:40
1279	Male	1930	Super Veteran	0.583	VeloSterling Procycles	Scotland	02:34:02	01:29:48
1177	Female	1931	Super Veteran	0.531	Ayrshire Arrows	Scotland	01:35:15	00:50:35
1108	Male	1960	Master	0.908	Powys Rockets	Wales	02:47:44	02:32:18
1167	Male	1955	Master	0.879	Gwynedd Road Club	Wales	02:04:54	01:49:47
1164	Male	1953	Veteran	0.866	Gwynedd Road Club	Wales	03:00:50	02:36:36
1132	Male	1948	Veteran	0.827	Gwynedd Road Club	Wales	02:37:43	02:10:26
1250	Male	1942	Grand Veteran	0.766	Gwynedd Road Club	Wales	01:44:57	01:20:24
1224	Male	1938	Grand Veteran	0.717	Powys Rockets	Wales	02:57:30	02:07:16
1228	Female	1946	Veteran	0.704	Powys Rockets	Wales	01:27:04	01:01:18
1285	Male	1937	Grand Veteran	0.702	Gwynedd Road Club	Wales	02:25:44	01:42:18
1234	Male	1932	Super Veteran	0.622	Powys Rockets	Wales	02:44:24	01:42:15
1238	Male	1930	Super Veteran	0.583	Gwynedd Road Club	Wales	01:20:15	00:46:47
						Longest race time	03:07:42	
							\sim	

Correct longest race time (03:07:42)

End of report only, fully visible, right aligned with times in *Race_Time* column

Label 100% accurate, fully visible to the left of value

1 mark

1 mark

Name, centre number, candidate number

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Task 4 – Presentation

	The Virtual World of Cycling	£	-
	· A growing bend		
		-	
	Contraction in the contraction i		
	Benefits of Virtual Cycling		
	- complex control over training		_
	utilise detailed meets and performance tracking data Siverse environment makes indoor cycling entring and fine social integrates with like-minded people mortamide.		
	under as no danger from traffic available in any location, at any cinneregardiese of the meather		
ļ	the state of the s	-	
	Virtual Cycling Trends	3	
	- cotine unining became the top	2	
	Visiongle topped the health and finess app charts with 0.0		-
	tentition deveninado - en tecrosos in global deveninada el 46% - i I stelline senar resisera sold-		
	as arrenge of ose sold-every rec.		

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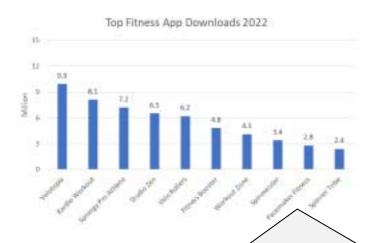
Velotopia Cycling App	
Surest georing insentine cycling at home app most popular virtual cycling platform for senateur and elice tycling	e e
cases for all abilities and finess levels bighty engaged cycling community which brings the virtual	5+
envisionment to till many cycle rouse and virtual worlds to explore seet can tackle mixed leman from fire circular to minumate climbs	
and smooth terms: to gravel roads and colibbes	<u> </u>
	y 1 -
Equipment	ç
bide or delitered indoor smart biles classic rathe maker (65%) – classic to the wheel and allows patielling	9
which stationary paed sometimes with Electronic for see with classic manual but limited for stationality	
smart tube value (\$1000) - incends with cycling apps, simulates hid climbs and records detailed ride analytics smarphose, company, tablet or smart TV with Diseaset;	
Cicyal ada — among is reportable as	
	0 19-
Getting Started	2
connect your tribe to the subst weiger dorsulast the Velocopia syrling upp - start with a fire T-day trief and	E
cide - pair file app to your amentations, computer, tables or omen TV - create as account and classe as evalue	
- star pedding and join the fan)	
	5-
16-16 (40-166 (40-	

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Square shaped action button inserted top right of Virtual Cycling Trends slide 1 mark Text inserted on action button – 100% accurate and fits within button 1 mark

Virtual Cycling Trends

Top **Fitness** Trends



- online training became the top fitness trend in 2022
- Velotopia topped the health and fitness app charts with 9.9 million downloads - an increase in global downloads of 46%
- · 3.1 million smart trainers sold an average of one sold every ten seconds

App labels on category axis, millions on value axis, no legend displayed 1 mark Name, centre number, car Chart title **Top Fitness App Downloads 2022** – 100% accurate Accurate value axis title Million

Vertical bar chart created using correct data

1 mark 1 mark 1 mark

1 mark

Data values only displayed along the top of each bar Value axis (y-axis) displays minimum 0, maximum 15

1 mark 1 mark

Value axis (y-axis) increments set at 3 Correct slide, left of bullets, chart data fully visible, no split words, chart does not overlap any slide items

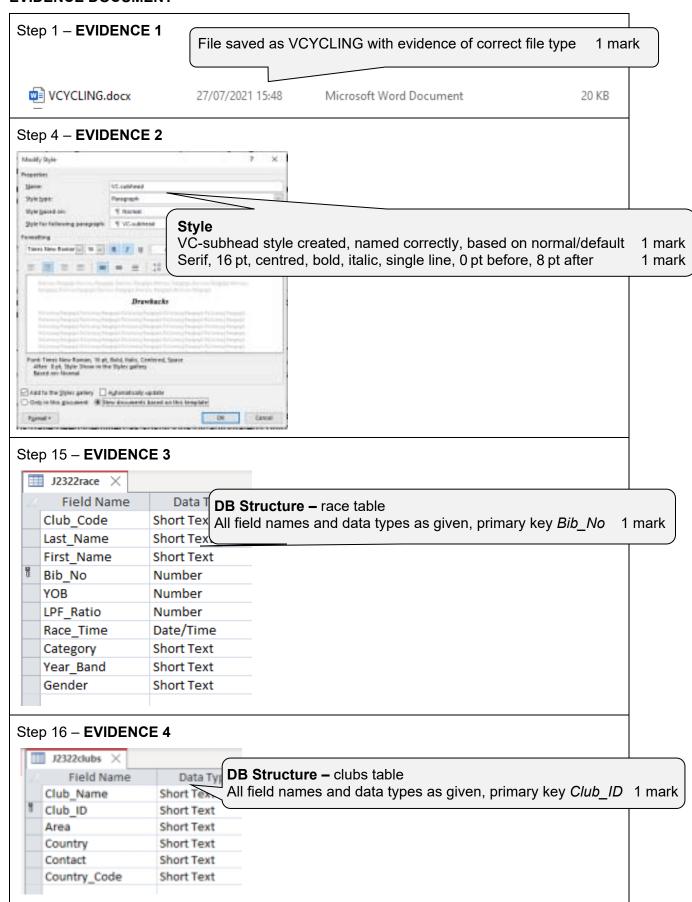
1 mark

Slide Virtual Cycling Trends printed, full page single slide, landscape

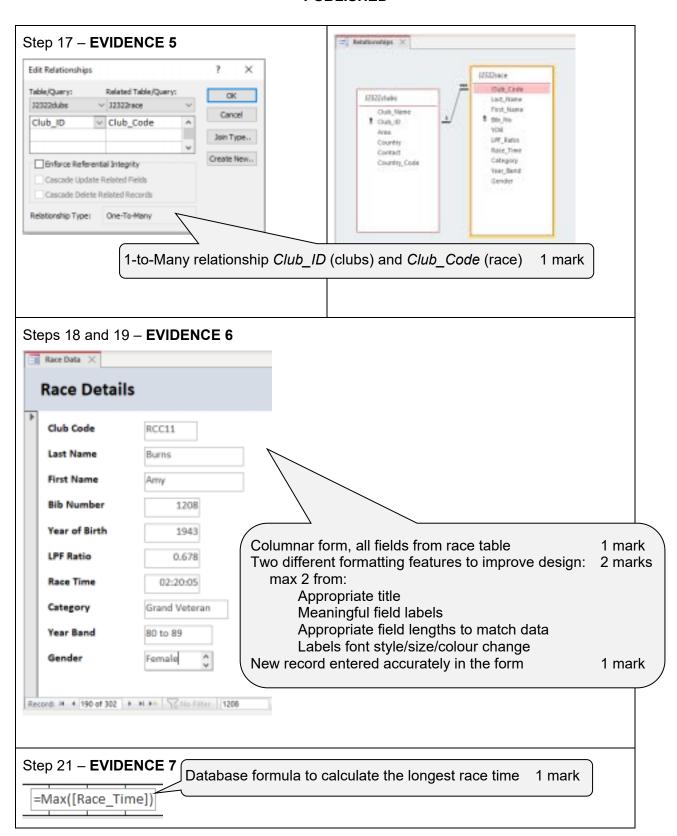
1 mark

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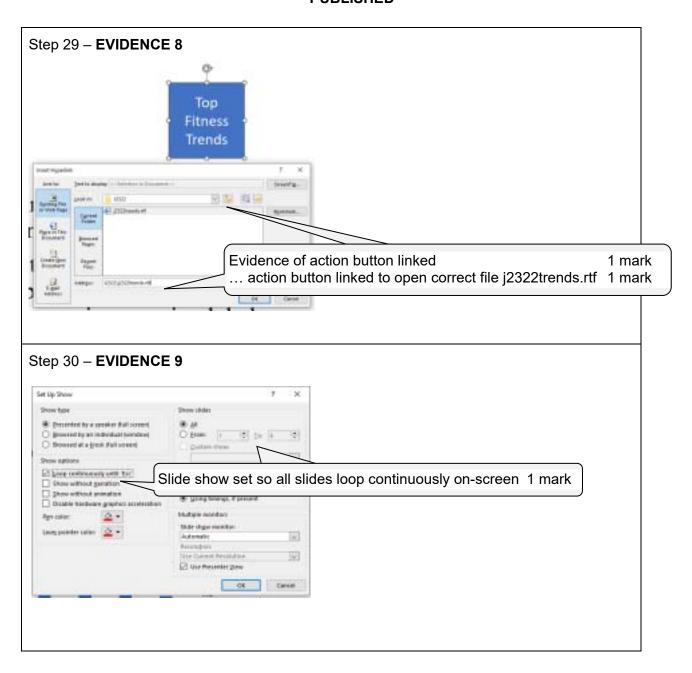
EVIDENCE DOCUMENT



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