



Province of the
EASTERN CAPE
EDUCATION

**NATIONAL
SENIOR CERTIFICATE**

GRADE 12

SEPTEMBER 2018

COMPUTER APPLICATIONS TECHNOLOGY P1

MARKS: 180

TIME: 3 hours



This question paper consists of 18 pages, an HTML tag sheet, an input mask character sheet and a separate information sheet.

INSTRUCTIONS AND INFORMATION

1. Owing to the nature of this practical examination, it is important to note that, even if you complete the examination early, you will NOT be permitted to leave the examination room until all the administrative functions associated with the examination have been finalised. During the examination, normal rules regarding leaving the examination room apply.
2. Insert your surname and name in the header of EVERY document that you create or save, where applicable.
3. The invigilator will give you a CD/DVD/flash disk containing all the files needed for the examination OR you will be told where the files can be found on the network or computer. If a CD/DVD has been issued to you, you must write your school and name on the CD/DVD. If you are working on the network, you must follow the instructions provided by the invigilator/educator.
4. A copy of the master files will be available from the invigilator. Should there be any problems with a file, you may request another copy from the invigilator.
5. This question paper consists of SEVEN questions.
6. Answer ALL the questions.
7. Ensure that you save EACH document using the file name given in the question paper. Save your work at regular intervals as a precaution against possible power failures.
8. Read through each question before answering or solving the problem. Do NOT do more than required by the question.
9. At the end of the examination, you must hand in the CD/DVD/flash disk given to you by the invigilator with ALL your answer files saved onto it, OR you should make sure that ALL your answer files are saved on the network/computer as explained to you by the invigilator/educator. Make absolutely sure that all files can be read. Do NOT save unnecessary files/folders. Do NOT hand in duplicate answer files/folders.
10. The information sheet that has been provided with the question paper **MUST BE COMPLETED AFTER THE THREE-HOUR EXAMINATION SESSION**. Hand it to the invigilator at the end of the examination.
11. During the examination, you may consult the offline help functions of the programs that you are using. You may NOT use any other resource material.
12. Unless instructed otherwise, use formulae and/or functions for ALL calculations in spreadsheet questions. Use absolute cell references only where necessary to ensure that formulae are correct when you copy them to other cells in a spreadsheet.

13. **NOTE:** All formulae and/or functions should be inserted in such a manner that the correct results will still be obtained even if the data changes.
14. If data is derived from a previous question that you could not answer, you should still proceed with the questions that follow.
15. In ALL questions involving word processing, you should set the language to English (South Africa). The paper size is assumed to be A4 Portrait, unless instructed otherwise.
16. Ensure that the regional settings are set to South Africa and date and time settings, number settings and currency settings are set correctly.

In Annexure A the HTML tag sheet is provided.

17. The examination folder/CD/DVD/flash disk that you receive with this question paper will contain the folder and files listed below. Ensure that you have the folder and ALL the files before you begin this examination.

• 1_Picture	Image file
• 1_Triathlon	Word processing file
• 1_TriathlonSA	Image file
• 2_Triathlon flyer	Word processing file
• 3_Recording	Spreadsheet file
• 4_Logo	Image file
• 4_Triathlon Records	Database file
• 5_Picture	Image file
• 5_Triathlon website	HTML-file
• 6_Letter	Word processing file
• 6_Records	Database file
• 7_News Paper Article	PDF-file
• 7_Nutritional Requirements of an Athlete	PDF-file
• 2018 Race	PDF-file

SCENARIO

Your local community has decided to run a campaign on healthy life styles. Amongst the activities they are going to do is a triathlon race. They have asked you to help them with the bookwork which involves sending invitations, creating documents that explain the event, recording results, keeping records of athletes and creating a website to market the event.

QUESTION 1: WORD PROCESSING

A document was created to give some basic facts about the triathlon race.

Open the **1_ Triathlon** word processing document.

- 1.1 Set the top and bottom margins of the document to 2 cm. (1)
- 1.2 This document needs a cover page. Do the following:
 - 1.2.1 Insert the cover page Ion (Dark) at the beginning of the document. (1)
 - 1.2.2 Add the following title to the cover page on the document title textbox: Triathlon. (1)
 - 1.2.3 Add the current year in the Year textbox. (1)
- 1.3 Insert any automatically generated table of contents below the heading 'Table of Contents' on the second page. (1)
- 1.4 Apply styles to the document:
 - 1.4.1 Modify the Heading 2 style as follows:
 - Change the font colour to red.
 - Apply underlining. (2)
 - 1.4.2 Apply to all Heading 2 styles. (1)
- 1.5 Apply a dropped cap effect to the word 'A' (found under the heading Introduction), so that it appears over 3 lines and set spacing to 0.5 cm from the text. (3)
- 1.6 Locate the paragraph 'A transition ... the race'.
Change the paragraph formatting of this paragraph to resemble the rest of the paragraphs. (2)
- 1.7 Locate the word 'Triathlon' under the heading History of Triathlon.
Insert a hyperlink on the heading 'History of Triathlon in South Africa'. (2)

- 1.8 Find the bulleted list below the 'Distances are displayed as swim/bike/run:' heading. Format the bullets list as follows:
- Use the image **1_Picture.jpg**.
 - Adjust list indents to follow bullet / number with a space. (2)
- 1.9 Locate the text 'Name...' under the heading Skills.
- Convert the text to table with 4 columns.
 - Apply the table style Grid Table 4 Accent 2.
 - Change the row height of all the rows in the table to exactly 1 cm.
 - Centre the contents of the entire table vertically. (6)
- 1.10 Find the space provided for the image under the heading 'Triathlon South Africa'.
- Insert **1_TriathlonSA.png**.
 - Insert a caption to the image to be in line with other pictures in the document.
 - The image reference must appear in the table of figures. (3)
- 1.11 Find the text 'Ironman Triathlon' under the heading Ironman Triathlon.
- Add a footnote below text
 - The footnote text must contain "Refer to www.triathlonsa.co.za". (3)
- 1.12 Apply an automatic numbering using number formats a,b,c to the References. (2)
- 1.13 Insert the automatic page numbering in centre of the footer of the document as follows:
- Page numbering should start on the 'Table of Contents' page.
 - Page numbering should appear in the format 'Page 1 of 1'.
 - The page numbers on odd-numbered pages should be left-aligned.
 - The page numbers on the even-numbered pages should be right-aligned. (6)
- Save and close the 1_Triathlon document. [37]

QUESTION 2: WORD PROCESSING

You were also requested to modify the flyer that was created in word. This flyer will be distributed as a form of marketing for the event.

Open the **2_Triathlon flyer** word processing document and modify the document to resemble the one below.



- 2.1 Change the paper size to A5. (1)
- 2.2 Format the picture watermark as follows:
- Set the scale of the watermark to 500%.
 - Remove the washout from the watermark. (2)
- 2.3 Apply a Stop text effect transformation to the WordArt '1st Annual Water Park Triathlon'. (2)
- 2.4 Format the pictures as follows:
- The 3rd picture must be moved and must be centre aligned and the same size as the other pictures.
 - Apply a Glow 18 Point Orange picture effect to all the pictures. (4)
- 2.5 Insert a horizontal scroll shape at the bottom of the page with a theme fill of "light 1 outline, coloured fill Orange Accent 2."
- Add the text: **It's a Showdown!** (4)
- Save and close the 2_Triathlon flyer document. [13]

QUESTION 3: SPREADSHEET

A spreadsheet containing results of the event has been stored in the **3_Recording** spreadsheet.

Open the **3_Recording** spreadsheet and work in the **Results** worksheet.

3.1 Format the worksheet as follows:

3.1.1 Merge the cells from cell **A1** to cell **O2**. (1)

3.1.2 Insert the text 'Triathlon SA Results Water Park' in the merged cells. (1)

3.1.3 Apply any gradient fill to the merged cells. (1)

3.1.4 Format **Row 3** so that all contents are visible without enlarging the cells. (1)

3.2 Freeze the pane so that headings in row 2 display when you scroll down. (2)

3.3 The code for each athlete is created as follows:

- The letters denoting the province the athlete comes from,
- any random value between 1–999
- and the current year.
- All separated by a / character.

Insert a function in cell **A4** to create the code for Silas Solis.

Copy the function in cell **A4** to the rest of the cells in column A. (6)

3.4 Use an appropriate spreadsheet feature to apply a blue colour to the 3 athletes with the best times in column K. (3)

3.5 Athletes will receive medals for participation. The medals table is stored in the **Table** worksheet in the 3_Recording spreadsheet.

Use a lookup function in cell **M5** to display the type of medal that the athlete will receive after finishing the race.

Ensure that the function will work correctly if it is copied to the rest of the cells in column **M**. (4)

3.6 Athletes are rewarded for their participation as follows:

Medal	Amount
Platinum	R10 000.00
Gold	R8000.00
Silver	R5000.00
Bronze	R3000.00
No Medal	-

(4)

Add a suitable function in cell **N6** to display the amount that Beck Cantu will be rewarded with.

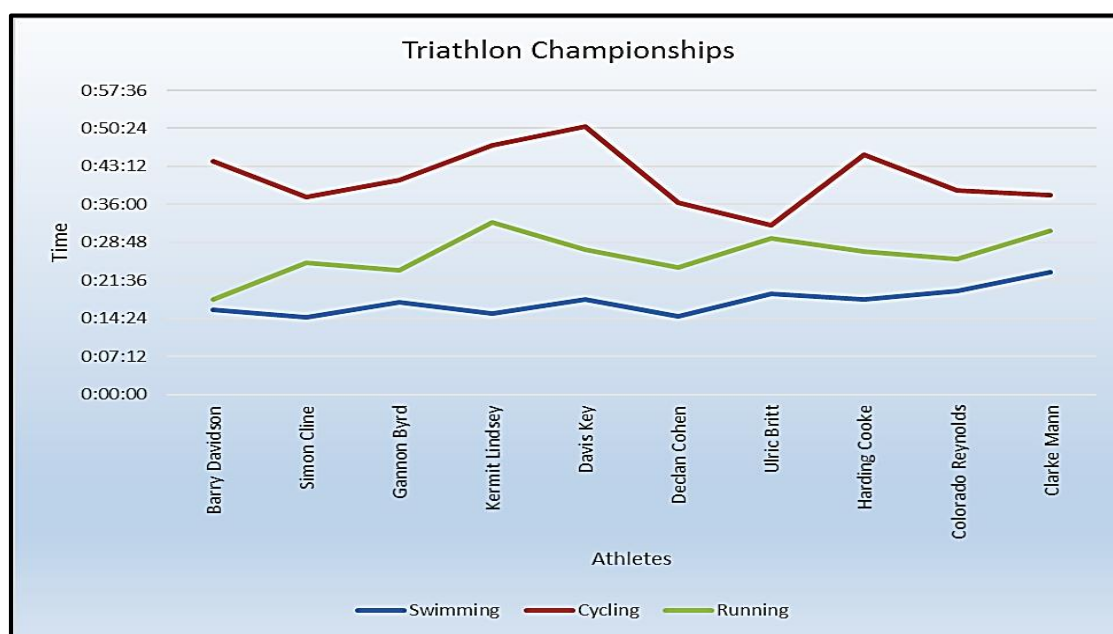
3.7 The total time includes the transitional times (T1 and T2). The organisers wish you to remove the transitional times from the total time and calculate the new total time.

In cell **O4**, calculate the New Total Time. (3)

- 3.8 Insert a function in **L72** to calculate the total amount raised by all the athletes from ZIM. (4)
- 3.9 Each athlete is supposed to pay a registration fee of R1000.00. Calculate in cell **L74**, the outstanding amount of the ZIM athletes. (6)
- 3.10 Insert a function in cell **L76** to determine the number of athletes who have not paid. (2)
- 3.11 Calculate in cell **K78** the average time taken to finish the race. (2)
- 3.12 In cell **K80** use a function to determine the frequently appearing time in column K. (2)
- 3.13 The organisers were interested to know the athletes who endure most. The athletes who they believe endure most are those who finished swimming in less than 7 minutes and finished cycling in less than 22 minutes.
- Insert a function in cell **K84** to calculate the number of athletes who can endure. (5)

Work in the **Graph** worksheet.

- 3.14 A chart was created using the data in the **range A2:D11**. Change the chart / graph to resemble the chart / graph below by carrying out the instructions that follow.



- Change the chart title to "Triathlon Championships".
- Insert the text 'Time' for the vertical axis.
- Change the horizontal axis to resemble the example above.
- Edit the legend to display Swimming, Cycling and Running.
- Format chart area to any gradient fill.
- Use a spreadsheet feature to move the chart to a new sheet and name it Triathlon Graph. (6)

Save and close the 3_Recording spreadsheet.

[53]

QUESTION 4: DATABASE

A database of all the athletes that participated was created but had errors. **Modify the database and do all queries in design view.**

Open the **4_Triathlon Records** database.

4.1 Edit the **Athletes** table as follows:

4.1.1 Change the field size of the **Athlete Code** field to 08. (1)

4.1.2 Create an input mask for the **Athletes Code** field to only accept data in the following format:

- Three compulsory letters.
- Three digits.
- Two compulsory letters.
- All letters must be in uppercase.
Example: KZN989EY (4)

4.1.3 Set the primary key to a more appropriate field type. (1)

4.1.4 Change the properties of the **DOB** field to a medium date. (1)

4.1.5 The athlete must state whether he or she is disabled or not.
Set the **Disability** field to an appropriate field type. (1)

4.1.6 Set the default value of the **Fees** field to R1000.00. (1)

4.1.7 ZIM has been omitted in the list of Provinces or Nations in the **Province** field.

Add ZIM on the list of provinces and ZIM must appear first on the list. (2)

4.1.8 Change the properties of the **LastRace** field so that:

- *LastRace* field is a required field.
- Ensure that the date to be added on this field is not be earlier than 01 Jan 2015.
- An appropriate text must display when wrong date is entered. (3)

4.2 Open the form **frm4_2**.

Modify the form as follows:

- Change the background colour of the form header to blue.
- Edit the heading to be 'Results of Championships.'
- Insert a picture **4_Logo.jpg** on the form header and align right.
- Insert a Stop navigation tool to close the form at the form footer. (6)

4.3 Open the query **qry4_3** and modify it as follows:

A mobile network company wanted to sponsor all the athletes that are using Cell C (084). Because of the significant number of participants, the organisers decided to give this sponsor only to males between the ages 20 to 30.

Modify the query qry4_3 to get only the names and cell numbers of these sponsored people. Sort alphabetically according to Athlete Name. (5)

4.4 Open query **qry4_4**

Modify the query so that it displays the total number of money paid by athletes from ZIM. (3)

4.5 Open query **qry4_5**

The organisers received a lot of money from sponsorship and they decided to refund athletes some money. The refunds were as follows:

- Each athlete will be refunded a R100 and
- 10% of the Registration Fee he or she has already paid.

Create and display a calculated field called Refund to calculate the money to be refunded to each athlete. (5)

4.6 Create a report from the **Results table**.

- Only the following fields must be used: Athlete Name, Province / Nationality, Gender, Age, Total time and Registration fee.
- Group according to Province / Nationality field and then by Gender field.
- Sort according to the Athlete name field.
- Page orientation must be landscape.
- In the Gender footer, calculate the total amount collected per gender in each province or nation.
- The total amount must be in suitable format.
- Save it as rpt4_6. (8)

Save and close the 4_Triathlon Records database. [41]

QUESTION 5: WEB DESIGN (HTML)

A web page has been created to make people aware about the Triathlon race that will be taking place.

Open the incomplete **5_Triathlon website.html** web page in a web browser and also in a text/HTML editor eg. Notepad (NOT a word processing program such as Word).

NOTE:

- Question numbers are inserted as comments in the coding as guidelines to show approximately where the answer(s) should be inserted.
- An HTML tag sheet has been attached for reference.

Your final web page should look like the example below.

Triathlon

A triathlon is an athletic contest in which each athlete competes in three different events: swimming, cycling, and running.


The community of Water Park will be having a Triathlon race on the 12th September 2018. All people are invited. This is an initiative by the Department of Health.

Notice to Athletes

Payment is strictly linked to entry deadlines. Under 18s require a parent or guardian consent to enter any race. Once online entries close, athletes can contact Trinity Sports to enquire about availability of late entries. Late entries are not guaranteed and are at the discretion of Trinity Sports Directors.

Distances for the day

- Swim - 400m
- Bike - 10 Km
- Run - 2.5km



The Water Park Guest Experience Includes:

Well-appointed covered and open-air viewing areas, comfortable seating lounges, and private suites. A spectacularly crafted luncheon designed by our executive chef. Private access to wagering kiosks and terminals, concierge services, and betting assistance. Access to the Water Park Grand Starting Gate held pre-race. Unique sites and sounds, gifts from our partners, and more.

Prizes will be as follows:

Time	Medal	Prize
less than 40 minutes	Platinum	R10 000
less than 45 minutes	Gold	R8 000
less than 50 minutes	Silver	R5 000
less than 55 minutes	Bronze	R3 000
Good Luck		

You can enter [another race](#) by clicking on the link and register. Good luck.

- 5.1 Add a HTML code to display the text 'Triathlon' in the browser. (2)
- 5.2 Adjust the heading 'Triathlon' as follows: (2)
- Centre the heading 'Triathlon'.
 - Change the font colour to red.
- 5.3 Change the size of the horizontal line that is under the heading 'Triathlon' to 50% and colour red. (2)
- 5.4 Insert a tag that will place the information in a square bulleted list as shown in the example above. (2)
- 5.5 The image tag is supposed to display the 5_Picture.jpg picture stored in your data folder. (4)
- Correct the code for the image to display correctly.
 - The word 'Swimming' must appear if the picture does not display.
 - Centre the picture horizontally and put a 5 pt border around the picture.
- 5.6 A table has been created, but does not display correctly. Correct it as follows: (5)
- Add a row at the top of the table and insert text as shown below as well as in the screenshot.
- | | | |
|-------------|--------------|--------------|
| Time | Medal | Prize |
|-------------|--------------|--------------|
- Set the table border to 1.
 - Set the space between text and the cell padding to 10.
 - Merge the cells in the last row of the table.
- 5.7 Insert a link on the words **another race** found below the table, to link to the "2018 Race.pdf" file in your data folder. (3)
- Save and close as 5_Triathlon document. [20]

QUESTION 6: GENERAL

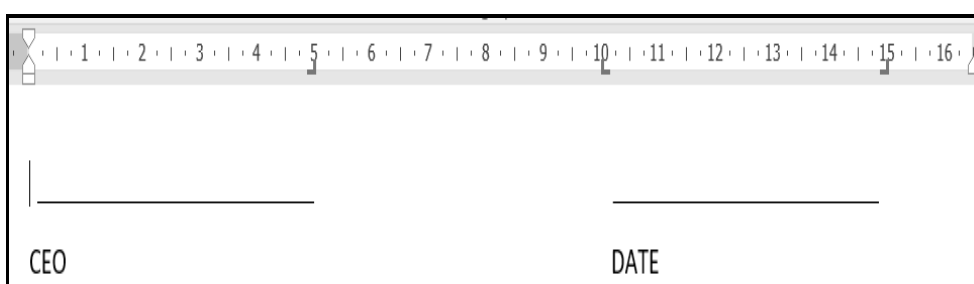
The CEO of Water Park Triathlon wrote a letter to athletes who participated in the event to congratulate them.

6.1 Open the letter **6_Letter** and make the necessary changes.

6.1.1 Insert today's date that does not update. (2)

6.1.2 Make the correction to the word **International** as stated in the comment and delete the comment. (2)

6.1.3 Apply leader tabs at the bottom of the form so that it displays as shown below.

The image shows a screenshot of a word processing application window. At the top, there is a horizontal ruler with markings from 1 to 16. Below the ruler, there is a text area containing two horizontal lines. The line on the left is positioned at the start of the text area and is labeled 'CEO' below it. The line on the right is positioned further to the right and is labeled 'DATE' below it. The entire form is enclosed in a rectangular border.

6.2 Use the **6_Records** database as the source document to prepare letters to athletes using the mail merge feature of the word processor.

Open **6_Letter** word processing document to prepare a mail merge for the athletes as follows:

- Only athletes from RSA Province / Nationality must receive the letters.
- Letters must be sorted alphabetically according to the last name.
- Both surname and name merge fields inserted in correct positions.
- Mail merge completed and saved as **6_Merged letters**. (4)

Save and close 6_Letter document. [12]

QUESTION 7: INTEGRATION

A newspaper article **7_Newspaper Article** needs to be edited.

- 7.1 Locate the underlined word 'color' and correct it using the word processing spell check. (1)
- 7.2 Use a word processing feature to replace the underlined 'celebrating' with a synonym. Use the first word that appears on the list. (1)
- 7.3 Locate the underlined word 'Congratulations' and set a 200% character scaling on it. (1)
- 7.4 Place an icon link on the shape provided, of the pdf file "**7_Nutritional Requirements of an Athlete.pdf**" found on your data folder. (1)
- Save and close as 7_Newspaper Article. [4]

TOTAL: 180

ANNEXURE A – HTML TAG SHEET

Basic Tags		Formatting Tags continued	
Tag	Description	Tag	Description
<body></body>	Defines the body of the web page		Inserted before each list item, and adds a number or symbol depending upon the type of list selected
<body bgcolor="pink">	Sets the background colour of the web page		Adds an image
<body text="black">	Sets the colour of the body text		Aligns an image: can also be "right", "center"; "bottom", "top", "middle"
<head></head>	Contains information about the document		Sets size of border around an image
<html></html>	Creates an HTML document – starts and ends a web page		Sets the height and width of an image
<title></title>	Defines a title for the document		Displays alternative text when the mouse hovers over the image or when the image is not found
<!-- -->	Comment	<hr/>	Inserts a horizontal line
Text Tags		<hr size="3"/>	Sets size (height) of line
Tag	Description	<hr width="80%"/>	Sets width of line, in percentage or absolute value
<h1></h1>	Creates the largest heading	<hr color="ff0000"/>	Sets the colour of the line
<h6></h6>	Creates the smallest heading	Table Tags	
	Creates bold text	Tag	Description
<i></i>	Creates italic text	<table></table>	Creates a table
	Sets size of font, from "1" to "7"	<tr></tr>	Creates a row in a table
	Sets font colour	<td></td>	Creates a cell in a table
	Sets font type	<th></th>	Creates a table header (a cell with bold, centered text)
Link Tags		<table width="50">	Sets the width of the table
Tag	Description	<table border="1">	Sets the width of the border around the table cells
	Creates a hyperlink	<table cellpadding="1">	Sets the space between the table cells
	Creates an image link	<table cellspacing="1">	Sets the space between a cell border and its contents
	Creates a target location	<tr align="left">	Sets the alignment for cell(s) (can also be "center" or "right")
	Links to a target location created somewhere else in the document	<tr valign="top">	Sets the vertical alignment for cell(s) (can also be "middle" or "bottom")
Formatting Tags		<td colspan="2">	Sets the number of columns a cell should span
Tag	Description	<td rowspan="4">	Sets the number of rows a cell should span
<p></p>	Creates a new paragraph		
<p align="left">	Aligns a paragraph to the "left" (default), can also be "right", or "center"		
 	Inserts a line break		
	Creates a numbered list		
<ol type="A", "a", "I", "i", "1">	Defines the type of numbering used		
	Creates a bulleted list		
<ul type="disc", "square", "circle">	Defines the type of bullets used		

INPUT MASK CHARACTER SHEET

CHARACTER	DESCRIPTION
0	Digit (0 to 9, entry required, plus [+] and minus [-] signs not allowed)
9	Digit or space (entry not required, plus [+] and minus [-] signs not allowed)
#	Digit or space (entry not required; spaces are displayed as blanks while in Edit mode, but blanks are removed when data is saved; plus [+] and minus [-] signs allowed)
L	Letter (A to Z, entry required)
?	Letter (A to Z, entry optional)
A	Letter or digit (entry required)
a	Letter or digit (entry optional)
&	Any character or a space (entry required)
C	Any character or a space (entry optional)
.,;:-/	Decimal placeholder and thousand, date and time separators (The actual character used depends on the settings in the Regional Settings Properties dialog box in the Windows Control Panel.)
<	Causes all characters to be converted to lower case
>	Causes all characters to be converted to upper case to right. You can include the exclamation point anywhere in the input mask.
!	Causes the input mask to display from right to left, rather than from left to right. Characters typed into the mask always fill it from left to right. You can include the exclamation point anywhere in the input mask.
\	Causes the character that follows to be displayed as the literal character (for example, \A is displayed as just A)

COMPUTER APPLICATIONS TECHNOLOGY P1 – SEPTEMBER 2018**INFORMATION SHEET** *(to be completed by the candidate AFTER the 3-hour session)*

SCHOOL: _____

NAME: _____

WORK STATION NUMBER: _____

SUITE USED (Mark appropriate box with a cross (X))	Microsoft Office 2010	Microsoft Office 2013	Microsoft Office 2016	Office 365
WEB BROWSER USED (QUESTION 6) (Mark appropriate box with a cross (X))	Mozilla Firefox	Google Chrome	Internet Explorer	Other (Specify)

FOLDER NAME: _____

Tick if saved and/or attempted.

Question Number	File name	Saved (✓)	Attempted (✓)	Maximum mark	Maximum achieved	Marker	HOD	Cluster	EM
1	1_Triathlon			37					
2	2_Triathlon			13					
3	3_Recording			53					
4	4_Triathlon			41					
5	5_Triathlon			20					
6	6_Letter			12					
7	7_Newspaper Article			4					
	TOTAL:			180					

Comment (for marker use only)

