



# Cambridge IGCSE™

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## INFORMATION AND COMMUNICATION TECHNOLOGY

0417/02

Paper 2 Document Production, Data Manipulation and Presentations

October/November 2022

2 hours 30 minutes

You will need: Candidate source files (listed on page 2)

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### INSTRUCTIONS

- Carry out **all** instructions in each step.
- Enter your name, centre number and candidate number on every printout before it is sent to the printer.
- Printouts with handwritten candidate details will **not** be marked.
- At the end of the examination, put all your printouts into the Assessment Record Folder.
- If you have produced rough copies of printouts, put a cross through each one to indicate that it is not the copy to be marked.
- You must **not** have access to either the internet or any email system during this examination.

### INFORMATION

- The total mark for this paper is 80.
- The number of marks for each question or part question is shown in brackets [ ].

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This document has **16** pages. Any blank pages are indicated.

You have been supplied with the following source files:

N2202CLASS.csv  
N2202EVIDENCE.rtf  
N2202FLAG.png  
N2202INFRINGE.csv  
N2202NRI\_FORM.rtf  
N2202OUTCOMES.csv  
N2202REGATTA.rtf  
N2202RESULTS.rtf  
N2202SKIPPERS.csv

### Task 1 – Evidence Document

Open the file **N2202EVIDENCE.rtf**

Make sure that your name, centre number and candidate number will appear on every page of this document.

Save this document in your work area as **N2202EVIDENCE** followed by your candidate number, for example, N2202EVIDENCE9999

You will need your Evidence Document during the examination to place screenshots when required.

### Task 2 – Document

*You are going to edit a document for Tawara Sailing Club. The company uses a corporate house style for all its documents. Paragraph styles must be created, modified and applied as instructed.*

1 Open the file **N2202REGATTA.rtf**

The page setup is set to A4, landscape orientation with 2 centimetre margins. Do **not** make any changes to these settings.

Three paragraph styles have already been created. Do **not** make any changes to these unless instructed.

Save the document in your work area, in the format of the software you are using, with the file name **SAILING**

Take a screenshot to show this file has been saved including evidence of the file type. Place this screenshot in your Evidence Document.

#### **EVIDENCE 1**

Screenshot evidence of the document saved in your work area.

[1]

2 Place right aligned in the header:

- the text **Sailing Instructions**
- on a new line: your name, centre number and candidate number.

Place in the footer automated page numbers centre aligned.

Make sure that:

- the header is right aligned to the page margin
- the footer is centre aligned between the page margins
- no other text or placeholders are included in the header or footer areas
- headers and footers are displayed on all pages.

[2]

3 Create the following paragraph style, basing it on the default paragraph style.

| Style name         | Font style | Font size (points) | Alignment | Enhancement       | Line spacing | Space before (points) | Space after (points) |
|--------------------|------------|--------------------|-----------|-------------------|--------------|-----------------------|----------------------|
| <b>TSR-subhead</b> | serif      | 18                 | centre    | italic, underline | single       | 0                     | 4                    |

Take screenshot evidence to show the settings for the *TSR-subhead* paragraph style and place this in your Evidence Document.

**EVIDENCE 2**

Screenshot evidence showing the settings for the *TSR-subhead* paragraph style.

[2]

- 4 At the start of the document enter, on a new line, the title:

### Tawara Sailing Regatta

Apply the *TSR-title* paragraph style to this text.

Modify the *TSR-title* paragraph style so only the following formatting is applied:

| Style name       | Font style | Font size (points) | Alignment | Enhancement  | Line spacing | Space before (points) | Space after (points) |
|------------------|------------|--------------------|-----------|--------------|--------------|-----------------------|----------------------|
| <i>TSR-title</i> | serif      | 30                 | centre    | bold, italic | single       | 0                     | 0                    |

Take screenshot evidence to show your modified settings for the *TSR-title* paragraph style and place this in your Evidence Document.

#### EVIDENCE 3

Screenshot evidence showing your modified settings for the *TSR-title* paragraph style.

[3]

- 5 Select the subheading *Schedule* and the following text up to and including the paragraph ending *... protest committee are final.*

Change the page layout so that only this text is displayed in two columns of equal width with a 1.5 centimetre space between them.

[2]

- 6 Apply bullets to the text from

*overall team with ...*

to

*... in 2003 or later).*

Make sure that:

- the bullets are indented 1 centimetre from the left margin
- the list is in single line spacing with no space before or after each line
- there is a 6 point space after the last item in the list.

[3]

- 7 Identify the six subheadings in the document and apply the *TSR-subhead* paragraph style to each one. [1]

- 8 Import the image **N2202FLAG.png** and place it in the paragraph beginning *At the start of each race ...*

Reflect (flip) the image so the flag is on the right.

Format the image so that:

- it is resized to a width of 2.5 centimetres with the aspect ratio maintained
- it is aligned to the right of the column and top of the paragraph starting *At the start of each race ...*
- the text wraps around the image.

[4]

- 9 Locate the table in the document.

Format the table so that it looks like this:

|                        |          |       |                                  |
|------------------------|----------|-------|----------------------------------|
| <b>Racing Schedule</b> | 4 August | 09:00 | Registration and boat inspection |
|                        |          | 14:00 | Practice races, warning signal   |
|                        |          | 17:00 | Opening ceremony                 |
|                        |          | 19:30 | Skippers' briefing               |
|                        | 5 August | 10:00 | Race 1                           |
|                        | 6 August | 10:00 | Race 2                           |
|                        | 7 August | 10:00 | Race 3                           |
|                        | 8 August | 11:00 | Race 4                           |

Make sure that:

- text displays on one line in columns 2, 3 and 4
- table borders and all data fit within the column width
- 1 point black internal and external gridlines are displayed when printed
- the *TSR-table* paragraph style applied to columns 2, 3 and 4 has **not** been changed
- there is a 6 point space after the table.

[8]

10 Spell check and proofread the document.

Make sure that:

- the table and list are **not** split over columns or pages
- there are no widows or orphans
- there are no blank pages
- paragraph styles have been applied as instructed with consistent spacing maintained between all items
- there is a 6 point space after the table and the list.

Save the document using the same file name and format used in step 1.

Print the document.

**PRINTOUT 1**

Make sure that you have entered your **name**, **centre number** and **candidate number** on your document.

[2]

[Total: 28]

**Task 3 – Database**

You are now going to prepare some reports.

- 11 Using a suitable database package, import the file **N2202SKIPPER.S.csv**

Use these field names and data types:

| <b>Field name</b>   | <b>Data type</b> | <b>Store</b>     | <b>Display</b>   |
|---------------------|------------------|------------------|------------------|
| <i>Skipper_Name</i> | Text             |                  |                  |
| <i>YOB</i>          | Number           |                  |                  |
| <i>Yacht_Name</i>   | Text             |                  |                  |
| <i>Make</i>         | Text             |                  |                  |
| <i>Class</i>        | Text             |                  |                  |
| <i>Sail_No</i>      | Text             |                  |                  |
| <i>Nationality</i>  | Text             |                  |                  |
| <i>Skip_Gender</i>  | Text             |                  |                  |
| <i>Handicap</i>     | Number           | 4 decimal places | 4 decimal places |
| <i>Group</i>        | Text             |                  |                  |
| <i>Race_1</i>       | Number           |                  |                  |
| <i>Race_2</i>       | Number           |                  |                  |
| <i>Race_3</i>       | Number           |                  |                  |
| <i>Race_4</i>       | Number           |                  |                  |
| <i>Points</i>       | Number           |                  |                  |

Set *Sail\_No* as a primary key.

Save the data.

Import the file **N2202CLASS.csv** as a new table in your database.

Use these field names and data types:

| Field name           | Data type | Store            | Display          |
|----------------------|-----------|------------------|------------------|
| <i>Yacht_Class</i>   | Text      |                  |                  |
| <i>Crew_Gender</i>   | Text      |                  |                  |
| <i>Age_Group</i>     | Text      |                  |                  |
| <i>Class_Code</i>    | Text      |                  |                  |
| <i>Keel</i>          | Text      |                  |                  |
| <i>Hull_Type</i>     | Text      |                  |                  |
| <i>Crew</i>          | Number    |                  |                  |
| <i>Hull(m)</i>       | Number    | 2 decimal places | 2 decimal places |
| <i>Beam(m)</i>       | Number    | 2 decimal places | 2 decimal places |
| <i>Sail_Area(m2)</i> | Number    | 2 decimal places | 2 decimal places |

Set *Class\_Code* as a primary key.

Take screenshot evidence of the table structures showing the primary keys, field names and data types. Place this in your Evidence Document.

**EVIDENCE 4**

Screenshot evidence of the table structures in your database.

[5]

- 12** Create a one-to-many relationship between *Class\_Code* in the class table and *Class* in the skippers table.

Take screenshot evidence showing the fields and type of relationship. Place this in your Evidence Document.

**EVIDENCE 5**

Screenshot evidence of the fields and type of relationship.

[1]



13 Enter the following details as a new record in the skippers table.

|                     |                    |
|---------------------|--------------------|
| <i>Skipper_Name</i> | <b>Wang Chen</b>   |
| <i>YOB</i>          | <b>1950</b>        |
| <i>Yacht_Name</i>   | <b>Sunrays</b>     |
| <i>Make</i>         | <b>Sevier Luna</b> |
| <i>Class</i>        | <b>PL003</b>       |
| <i>Sail_No</i>      | <b>CHN2644</b>     |
| <i>Nationality</i>  | <b>CHN</b>         |
| <i>Skip_Gender</i>  | <b>Female</b>      |
| <i>Handicap</i>     | <b>0.9800</b>      |
| <i>Group</i>        | <b>Blue</b>        |
| <i>Race_1</i>       | <b>3</b>           |
| <i>Race_2</i>       | <b>12</b>          |
| <i>Race_3</i>       | <b>13</b>          |
| <i>Race_4</i>       | <b>4</b>           |
| <i>Points</i>       | <b>32</b>          |

Check your data entry for errors.

Save the data.

[2]

- 14 Using fields from both tables produce a tabular report that:
- selects the records where:
    - *Hull\_Type* is Multihull
    - *Skip\_Gender* is Female
    - *Points* is 30 or less
  - shows only the fields *Skipper\_Name*, *Nationality*, *Yacht\_Class*, *Hull\_Type*, *Sail\_Area(m2)*, *Hull(m)*, *Beam(m)* and *Points* in this order, with data and labels displayed in full. Do **not** group the data
  - sorts the data into ascending order of *Yacht\_Class* and descending order of *Points*
  - has a page orientation of portrait
  - fits on a single page with no page number displayed
  - includes only the text **Top Female Multihull Results** as a title displayed in a larger font size at the top of the page
  - calculates the lowest *Points* value and places this below the *Points* column at the end of the report
  - has a label **Lowest points score** to the left of this value
  - has your name, centre number and candidate number on the report.

Save and print your report.

**PRINTOUT 2**

Make sure that you have entered your **name**, **centre number** and **candidate number** on your report.

Take screenshot evidence showing the database formula used to calculate the lowest points value. Place this in your Evidence Document.

**EVIDENCE 6**

Screenshot evidence of the database formula used.

[11]

- 15 Using fields from both tables produce a tabular report that:
- selects only the records where:
    - *Yacht\_Name* contains the text sun
    - *Group* is Blue or Red
  - contains a new field called **New\_Points** which is calculated at run-time to multiply *Points* by *Handicap*. Format this field to display as an integer
  - shows only the fields *Skipper\_Name*, *YOB*, *Sail\_No*, *Yacht\_Name*, *Make*, *Yacht\_Class*, *Group*, *Handicap*, *Points* and *New\_Points* in this order, with data and labels displayed in full. Do **not** group the data
  - sorts the data into ascending order of *Yacht\_Name*
  - has a page orientation of landscape
  - fits a single page wide and prints on two pages only
  - includes only the text **Morning Race Results** as a title displayed in a larger font size at the top of the page
  - displays only your name, centre number and candidate number in the footer so it appears in the same position on every page.

Save and print your report.

**PRINTOUT 3**

Make sure that you have entered your **name**, **centre number** and **candidate number** on your report.

[10]

[Total: 29]

### Task 4 – Mail merge

You are required to carry out a mail merge to complete a penalty notice.

- 16 Create a mail merge document using the file **N2202NRI\_FORM.rtf** as the master document and **N2202INFRINGE.csv** as your data source file.

Replace the text and chevrons in the master document with the merge fields from the data source file, as follows:

| Text and chevrons to replace | Replace with merge field |
|------------------------------|--------------------------|
| <YNAME>                      | Yacht_Name               |
| <SAIL>                       | Sail_Number              |
| <YCLASS>                     | Yacht_Class              |
| <SKIPNAME>                   | Skipper_Name             |
| <NAT>                        | Nationality              |
| <RACE_NO>                    | Race_Number              |
| <RULE>                       | Rule_Ref                 |
| <INFRINGE>                   | Infringement             |
| <PENALTY_NO>                 | Penalty_Number           |
| <ACT>                        | Action                   |

Make sure the spacing, punctuation, alignment and enhancements in the original master document are maintained.

[4]

- 17 Replace <DATE> with a field to display today's date in the format dddd, dd MMMM yyyy

Take screenshot evidence to show the date field code format and place this in your Evidence Document.

#### EVIDENCE 7

Screenshot evidence of the date field format.

[1]

- 18 Replace the text *Candidate details here* with your name, centre number and candidate number.

Save and print your master document showing the merge field codes.

#### PRINTOUT 4

Make sure you have entered your **name**, **centre number** and **candidate number** on your master document.

[1]

- 19 Set an automated filter to select the records where nationality is USA or CAN

Take a screenshot to show the use of your automated selection method. Place this in your Evidence Document.

**EVIDENCE 8**

Screenshot evidence of your automated selection method.

[2]

- 20 Merge and print the penalty notices for the selected nationalities only.

Save and close the files.

**PRINTOUT 5**

Make sure you have entered your **name**, **centre number** and **candidate number** on your penalty notices.

[1]

[Total: 9]

**Task 5 – Printing the Evidence Document**

Save and print your Evidence Document.

**PRINTOUT 6**

Make sure that your **name**, **centre number** and **candidate number** appear on every page of your Evidence Document.

**Task 6 is on page 14.**

**Task 6 – Presentation**

You are going to create a short presentation. All slides must have a consistent layout and formatting.

**21** Create a presentation of six slides using the file **N2202RESULTS.rtf**

Unless otherwise instructed, the slides must display a title and a bulleted list.

[1]

**22** Use a master slide to display only:

- a thick black 3 to 4 point wide horizontal line across the width of the slide, about 3 centimetres from the top
- the text **2021 Event Statistics** on one line, in a large, black font, aligned to the top right. This text must be above the 3 to 4 point line
- automated slide numbers on the top left
- your name, centre number and candidate number.

Make sure that:

- master slide items appear in the same position on every slide
- no items overlap on any slide.

[3]

**23** Use the data in the file **N2202OUTCOMES.csv** to create a vertical bar chart for only the top 6 ranked countries. This chart must display:

- the names of the countries on the category axis
- the values for the *Avg\_Competitor\_Points* only.

[1]

**24** Label the chart as follows:

- chart title **Top Six Countries in 2021**
- value axis title **Average Points**
- category axis title **Country**

[2]

- 25 Display only the data values at the top of each bar. [1]
- 26 Format the value axis scale to display:
- a minimum value of 0
  - a maximum value of 32
  - increments of 4

[2]

- 27 Place the chart to the left of the bullets on the slide with the title *Event Entries*

Make sure that:

- no words in the chart are split
- all data and labels are fully visible
- no legend is displayed
- the chart and its content do **not** overlap any slide items.

Print only this slide as a full page slide in landscape orientation.

**PRINTOUT 7**

Make sure your **name**, **centre number** and **candidate number** are on this slide.

[2]

- 28 Format the bullets on slides 3, 4, 5 and 6 to display as a numbered list starting from 1 on each slide in ascending order as 1, 2, 3, 4, 5 and 6. [1]

- 29 Save the presentation.

Print the presentation as a handout with 6 slides to the page.

**PRINTOUT 8**

Make sure your **name**, **centre number** and **candidate number** are on all slides.

[1]

[Total: 14]

**BLANK PAGE**

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