

**Coursework Task  
C207 10**

**Intermediate 1 Computing Studies**

*Valid for session 2010/2011 only*

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## Coursework Task

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## **Section 1**

### **Organisation and Conditions for Assessment**

## Organisation and Conditions for Assessment

The assessment is designed to test the candidates' ability to apply knowledge and understanding and practical skills, developed through study of the Computer Applications and Multimedia Applications Units.

The assessment should take the student between 8 and 10 hours to complete in class. However, a candidate may be allowed longer than this if required. Sections 2 and 3 should be given to the candidates.

The assessment is to be undertaken under "open book" conditions, but under supervision to ensure that the work submitted is the candidate's own work. The tutor may give the candidate hints and/or help if requested. Any such help should be reflected in the marks awarded. Once the task has been completed and marked, it should **not** be returned to the candidate for further work.

The task is designed to discriminate between candidates and, therefore, would be expected to provide a wide range of marks. Stronger candidates should be able to complete the task successfully, and without tutor assistance, within the suggested time. Weaker candidates might not complete all aspects of the task within a reasonable time, or may require significant assistance, and so would achieve a lower total mark. Note that there is no requirement for a candidate to achieve a threshold to "pass" the assessment.

The mark obtained out of 40 should be submitted to the SQA unscaled. This will be combined with the Question Paper mark out of 60 to establish the candidate's overall grade of award. The Coursework mark should also be used in the preparation of estimate grades.

### **Pupils must be supplied with:**

- Coursework Task
- Marking Guidelines
- Blank paper to plan the report
- Access to hardware and software that can create and edit vector and bitmapped graphics
- Access to hardware and software to edit text
- Access to hardware and software to edit a database file
- Access to hardware and software to create a presentation
- Access to printing facilities
- Database file called "Popularity Database"
- Text file called "Park Information"
- Graphic called "Dragon's Maze"
- Graphic files called "Dragon 1", "Dragon 2", "Dragon 3" and "Dragon 4".

### **Comments:**

Teachers are advised to read the information provided in Section 4 carefully before allowing candidates to start the task as it contains important information about the type and volume of evidence to be retained.

## **Section 2**

### **Coursework Task**

# Coursework Task

## Intermediate 1 Computing Studies Coursework Task 2010-2011

### Introduction

A new theme park is opening in Scotland. The Legend of Arthur theme park will contain a variety of roller coasters, water rides, shops and food halls. Your task is to create a presentation which will be shown to visitors. The presentation will include information on the most popular attractions at the park and which of the roller coasters has the shortest waiting time. Your teacher will supply you with some text, some data and some graphics to include in your presentation.

### There are five parts to this task:

1. Search for the most popular attractions.
2. Edit the text for the presentation.
3. Edit a map of the theme park's maze.
4. Create a logo for the theme park.
5. Design and create the presentation which will include:
  - a page of information about the theme park
  - a page of information about the popularity of three types of attraction
  - a page displaying a map of the park's new maze

The final presentation can be produced using a *Desk Top Publishing, Presentation or Multimedia Authoring* package.

### What you will need

- access to a computer with a printer
- software that allows you to enter and edit text
- software that allows you to store, search and sort data
- drawing software that allows you to create a vector graphic
- painting software that allows you to edit a bitmapped graphic
- paper to design your presentation layout
- software that allows you to create a presentation
- marking guidelines

### What you have to do

The stages of the project are set out on the following pages. You should work through them, in order, on your own. You can ask your teacher for help if you are stuck but this may mean you gain fewer marks, but you should try to do as much as possible by yourself.

At each stage of the project you will produce some evidence of the work you have done, for example, a list of steps or a design on paper or a printout. Make sure that you write your name on each of the items and keep them safely. They count towards your assessment, so you must not lose them.

Tick the box beside each of the stages when you have completed them.

**Candidate answer grid**

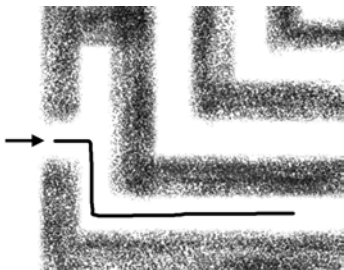
Name \_\_\_\_\_ Date \_\_\_\_\_

Stage	Task	Done (✓)
<b>Section 1 : Searching for the most popular attractions</b>		
1	Open the database file called “Popularity Database”.  This will be supplied by your teacher.	
2	Add the records shown in Appendix 1 to the database.	
3	The Roasted Boar, one of the Food Halls, has not been built .  Delete this record.	
4	Print out a list of all the Food Halls sorted according to their popularity rating. 1 is the most popular while 10 is the least popular.  Write down the name of the Food Hall with the best rating.  _____	
5	Add a new field called “Total Attraction Time” to the database.  A formula will be put into the field to calculate the Total Attraction Time by adding the Queuing Time to the Time in Attraction.  Write down the formula.  _____  Show this to your teacher and ask them to sign the sheet below.  Teacher signature  _____  Now add the field to the database.	



Stage	Task	Done (✓)
<b>Section 1 : Searching for the most popular attractions (continued)</b>		
6	<p>Use the database to find the Roller Coaster with the shortest Total Attraction Time.</p> <p>Write the name of the Roller Coaster below.</p> <p>_____</p>	
7	Obtain a printout of your database.	

Stage	Task	Done (✓)												
<b>Section 2 : Editing the text for the presentation</b>														
8	Open the file called “Park Information”.  This will be supplied by your teacher.													
9	Spell check the document.  Write down <b>two</b> of the words found by the spell-checker.  1st word    _____  Reason    _____  2nd word    _____  Reason    _____  Correct these words if necessary.													
10	Change the numbered list to a bulleted list.													
11	Add the table shown below in the space after the first sentence.  <table border="1"> <tr> <th>Months</th><th>Adult</th><th>Child</th></tr> <tr> <td>April–May</td><td>£15</td><td>£8</td></tr> <tr> <td>June–August</td><td>£20</td><td>£12</td></tr> <tr> <td>September–October</td><td>£18</td><td>£9</td></tr> </table>	Months	Adult	Child	April–May	£15	£8	June–August	£20	£12	September–October	£18	£9	
Months	Adult	Child												
April–May	£15	£8												
June–August	£20	£12												
September–October	£18	£9												
12	Make the headings in the first row of the table bold.													
13	Centre justify the Adult and Child columns.													
14	Include your name in the document.  Obtain a printout of the text.													

Stage	Task	Done (✓)
<b>Section 3 : Edit the Maze Map</b>		
15	<p>Your teacher will have supplied you with a graphic called “Dragon’s Maze”.</p> <p>What file <b>type</b> is the Dragon’s Maze graphic?</p> <p>_____</p>	
16	Open the Dragon’s Maze file.	
17	<p>The maze graphic is the wrong way round.</p> <p>Flip the graphic horizontally so that the entrance to the maze is at the bottom left-hand side.</p>	
18	Add the text “Dragon’s Gold” next to the treasure in the middle of the maze.	
19	Add an arrow to show the entrance into the maze.	
20	<p>Use an appropriate graphics tool to draw the correct path to the middle of the maze.</p> <p>The start of the path is shown below.</p> 	
21	<p>Save the edited maze using a suitable filename.</p> <p>Write down the filename.</p> <p>_____</p>	
22	<p>Obtain a printout of the maze.</p> <p>Write your name on the printout.</p>	

Stage	Task	Done (✓)
<b>Section 4 : Create a logo for the theme park</b>		
23	Open a new document in a drawing application.	
24	<p>Create a logo for the Legend of Arthur theme park.</p> <p>The logo should include the following objects.</p> <ul style="list-style-type: none"> <li>• The text “Legend of Arthur”</li> <li>• A sword and shield</li> <li>• A dragon (select one from the four provided by your teacher)</li> </ul>	
25	<p>Group all the objects together.</p> <p>Show this to your teacher and ask them to sign your sheet below.</p> <p>Teacher signature</p> <p>_____</p>	
26	<p>Save the logo using a suitable filename.</p> <p>Write down the filename.</p> <p>_____</p>	
27	<p>Write down the file <b>type</b> and the file <b>size</b> of the saved logo.</p> <p>The type of file is: _____</p> <p>The size of file is: _____</p>	
28	<p>Obtain a printout of the logo.</p> <p>Write your name on the printout.</p>	

Stage	Task	Done (✓)
<b>Section 5 : Create the Presentation</b>		
29	<p>Complete the following design on paper.</p> <ol style="list-style-type: none"> <li>Design a template which will be applied to all three pages. It should include a small copy of the logo you created in Section 4 and your name.</li> <li>Design the first page which will include the text you edited in Section 2.</li> <li>Design a second page which will include information recommending the most popular Food Hall and information on which Roller Coaster has the shortest Total Attraction Time, which you found in Section 1.</li> <li>Design the third page which should include suitable headings and the maze graphic edited in Section 3.</li> </ol> <p>Each page of your design should–</p> <ul style="list-style-type: none"> <li>look attractive</li> <li>show suitable fonts and font sizes</li> <li>be well laid out</li> </ul> <p>You may use a box with a cross in it to represent a graphic and its position, and a box with wavy lines to indicate text and its position.</p>	
30	Create the presentation ensuring that you follow your design above.	
31	<p>Save your presentation using a suitable filename.</p> <p>Write down the filename.</p> <p>_____</p>	
32	Obtain a printout of the presentation.	
33	Collect your work together and hand it to your teacher.	

## END OF COURSEWORK TASK

## Appendix 1

Additional records to be entered into the database.

Attraction	Category	Minimum Height (cm)	Popularity Rating (1 to 10)	Queuing Time (mins)	Time in Attraction (mins)
The Banquet Room	Food Hall	0	5	2	25
The Junior Duel	Roller Coaster	100	8	2	18
Jousting	Roller Coaster	140	1	54	7
The Fun Feast	Food Hall	0	2	15	45
The Old Inn	Food Hall	0	7	5	23

## **Section 3**

### **Marking Guidelines**

# Marking guidelines

Name \_\_\_\_\_

Date \_\_\_\_\_

Stage		Out of	Mark	Comments
	<b>Section 1</b>			
1	Open database			
2	Add five new records. Accurately (2), incomplete (1)	2,1,0		
3	Delete record	1,0		
4	Write down most popular Food Hall	2,1,0		
5	Add new calculated field (1), correct formula (1)	2,1,0		
6	Write down name of Roller Coaster with shortest Queuing Time (1)	1,0		
7	Obtain a printout			
	<b>Section 2</b>			
8	Open text file			
9	Write down 1 <sup>st</sup> word and reason it was identified (1) Write down 2 <sup>nd</sup> word and reason it was identified (1)	2,1,0		
10	Change list to bullet points (1)	1,0		
11	Add table to text file (1) Add text (1)	2,1,0		
12	Embolden first row of table (1)	1,0		
13	Centre justify Adult and Child columns (1)	1,0		
14	Obtain a printout			
	<b>Section 3</b>			
15	Write the correct file type (1)	1,0		
16	Open the maze graphic			
17	Flip the maze graphic horizontally (1)	1,0		
18	Add "Dragon's Gold" text (1)	1,0		
19	Add arrow to maze entrance (1)	1,0		
20	Use appropriate tool to draw solution on graphic (1)	1,0		
21	Save the file			
22	Obtain a printout			
	<b>Section 4</b>			
23	Open a new drawing document			
24	Create a logo including text (1), sword and shield (1) Insert dragon (1)	3,2,1,0		
25	Group the objects (1) – visual check required	1,0		
26	Save the file			
27	Write down the file type (1) Write down file size (1)	2,1,0		
28	Obtain a printout			



	<b>Section 5</b>			
29	Designs template (1) Designs three pages Page 1 – text with appropriate fonts and sizes (1) Page 2 – correct text with appropriate fonts and sizes (1) Page 3 – attractive heading and graphic (1)	4,3,2,1,0		
30	Creates template (1) using logo (1) includes name (1)	3,2,1,0		
	Insert text (1)	1,0		
	Insert most popular attractions (1) total attraction time (1)	2,1,0		
	Insert heading (1) and maze graphic (1)	2,1,0		
31	Save file using suitable filename			
32	Obtain a printout			
33	Hand in completed Coursework			
	Saves files and printouts as instructed	2,1,0		
	<b>Total</b>	<b>40</b>		

*For each stage:*

*full marks = achieved successfully without assistance*

*partial marks = achieved partially without assistance, or completed with some assistance/help*

*0 = not achieved, or completed only with significant assistance*

## **Section 4**

### **Advice on Recording and Retention of Evidence**

## **Advice on Recording and Retention of Evidence**

For each candidate, the following evidence should be retained for possible verification by SQA:

- 1 completed Coursework Task sheets and printouts as detailed in the Coursework Task
- 2 completed marking grid.

The summary form provided at the end of this Section may be copied for each candidate undertaking the Intermediate 1 Computing Studies Course.

## Conditions and Arrangements

The following instructions are for teacher guidance during the Coursework Task and should **not** be issued to candidates.

### Pupils must be supplied with:

- Coursework Task
  - Marking Guidelines
  - Blank paper to plan the report
  - Access to hardware and software that can create and edit vector and bitmapped graphics
  - Access to hardware and software to edit text
  - Access to hardware and software to edit a database file
  - Access to hardware and software to create a presentation
  - Access to printing facilities
  - Database file called “Popularity Database”
  - Text file called “Park Information”
  - Graphic called “Dragon’s Maze”
  - Graphic files called “Dragon 1”, “Dragon 2”, “Dragon 3” and “Dragon 4”
- All available from the SQA  
Secure website

### Comments:

Marks for saving and printing throughout the Coursework Task are awarded at the end of the marking scheme.

### Evidence:

While working on the Coursework Task candidates will gather evidence in the form of a teacher check and printouts. These will be used for verification purposes and the name of each candidate should be on each piece of evidence.

Stages	Evidence
4	A printout of the database showing sorted Food Halls and the absence of the deleted Food Hall (The Roasted Boar)
7	A printout of the database file showing the Roller Coasters sorted by Total Attraction Time.
14	A printout of the edited “Park Information” file with the added table and altered, bulleted list.
15	Accept jpeg or bitmapped graphic as answer.
22	A printout of the completed Dragon’s Maze graphic. Note that the finished path to the middle needs to be complete but does not need to be too accurate.
28	A printout of the completed logo including text, sword, shield and any one of the dragons provided.
29	A template design on paper. Three pages of presentation design on paper.
32	A printout of the three page presentation.

## Candidate assessment summary

Name \_\_\_\_\_ Year of presentation \_\_\_\_\_

Centre \_\_\_\_\_ Candidate number \_\_\_\_\_

### Unit assessment

Unit title	Computer Applications		
	Mark		Date passed
	1 <sup>st</sup> attempt	2 <sup>nd</sup> attempt	
Assessment 1 (Outcome 1)			
Assessment 2 (Outcome 2)			

Unit title	Multimedia Applications		
	Mark		Date passed
	1 <sup>st</sup> attempt	2 <sup>nd</sup> attempt	
Assessment 1 (Outcome 1)			
Assessment 2 (Outcome 2)			

Unit title			
	Mark		Date passed
	1 <sup>st</sup> attempt	2 <sup>nd</sup> attempt	
Assessment 1 (Outcome 1)			
Assessment 2 (Outcome 2)			

### Course assessment

	Mark	Date completed	Initials
Coursework Task (out of 40)			
Estimate examination mark (out of 60)			
Total (out of 100)		Teacher/Lecturer signature	
Estimate grade			