

# Toronto Prep School

## Course Cumulative Task

### Computers 7

**Teacher:** Mr. Zuberi  
**Total Marks:** 70  
**Dates:** June 2<sup>nd</sup> – June. 6<sup>th</sup>, 2014



#### *Instructions:*

1. This CCT comprises **6** pages (including the cover).
2. Read all of the questions and associated instructions very carefully.
3. You are only allowed to ask **two** questions during the exam; use them wisely.
4. Manage your time.

#### *Examination Breakdown*

Section	Marks	Time	Elapsed Time
I – Microsoft Word - June 2 <sup>nd</sup> and 3 <sup>rd</sup>	30	80 minutes	10:00 – 11:20
II – Microsoft Excel - June 4 <sup>th</sup>	20	80 minutes	10:00 – 11:20
III – Computer Programming - Jan. 5 <sup>th</sup>	10	80 minutes	10:00 – 11:20
IV – PowerPoint - Jan. 6 <sup>th</sup>	10	60 minutes	10:00 – 11:00
<b>Totals</b>	<b>70</b>	<b>300 minutes</b>	

*\*All work must be completed in class unless specified otherwise. This is a strictly independent project and is worth 30% of your final course mark. Good luck!*

## CCT

### Section 1, Monday, June 2<sup>nd</sup>, and Tuesday, June 3<sup>rd</sup>, 2014, with Microsoft Word

Write a report in Microsoft Word that discusses the history and current state of four to six major parts of your choice that help the computer run. An example would be the CPU – how it looked like and how powerful it was in the past compared to today's time. Include the following:

- Title page – state the author, name of project, due date, teacher's name. Make two objects relevant to the report using Shape Art. The shapes should be attractive and colourful.
- 2<sup>nd</sup> page - Table of Contents – includes topics that will be explored in the report, dotted lines to help the reader track the page numbers, and the page numbers themselves.
- Page numbers –should be visible on every page but not showing on the title page.
- Pages 3 – 5 should include your content and research on computer components. Include pictures as well and make sure you discuss them. The report should be in two columns. Everything should be in your own words unless you are quoting someone. The columns should be filled with interesting content. The font should be Times New Roman, size 12. The columns should be invisible after the content has been inserted.
- Page 6 should be your references. To reference websites, use the following format:  
<http://www.easybib.com/reference/guide/apa/website>
- The sources that Wikipedia is comprised of can be used once verified, but Wikipedia itself is not a source. Please see me if you need clarification on this.

Category	Level 5	Level 4	Level 3	Level 2	Level 1
Content is based on research. Citations follow the required format.	5 references	4 references	3 references	2 references	0-1 reference
Information is conveyed in a professional manner. Content is sufficient, organized in columns with pictures that are discussed, and logically ordered.	Thorough	Considerable	Some	Limited	None
Spelling and grammar is excellent and shows evidence of review prior to submission.	Thorough	Considerable	Some	Limited	None
Title page states the required information and shows a master of MS shapes that are relevant to the report.	Thorough	Considerable	Some	Limited	None
Title page states the required information and shows a master of MS shapes that are relevant to the report.	Thorough	Considerable	Some	Limited	None
Title has character spacing; table of contents are professional and accurately represent the report.	Thorough	Considerable	Some	Limited	None

Section 2, Wednesday, June 4<sup>th</sup>, 2014, with Microsoft Excel

1) A computer store named “Comphuture” has six parts in stock that it sells as a package. The package can be customized to have some cheap parts and some expensive parts.

<b>Parts</b>	<b>Cheapest Price (\$)</b>	<b>Most Expensive Price (\$)</b>
LCD Monitor	349.99	799.99
Mouse	8.99	29.99
Hard Disk Drive	47.50	195.50
CPU	100.00	400.00
Motherboard	85.99	184.99
DVD Drive	45.89	154.89

The store says that some years it does great and other years it does quite poorly. During the good years, it receives up to 18000 customers. During the not so good years, it receives only 11000 customers. Every year, 30% of all customers that visit the store purchase the package above. Comphuture has five customer sales representatives (paid \$45000 per year) and one manager (paid \$75000). The store wants you to write two annual budgets (profits, costs, and net-profit) to help for its analysis. One budget should be for the worst-case scenario and the other budget should be the best-case scenario for the store, all in one Excel spreadsheet.

Category	Level 5	Level 4	Level 3	Level 2	Level 1
Organization, proper bolded headings, all numbers are inputted in cells.	Thorough	Considerable	Some	Limited	None
Correct formulas used, logical step-by-step approach is used to derive the answer.	Thorough	Considerable	Some	Limited	None

2) As an accountant at a car rental place in Toronto called “Rentar”, your manager wants you to make its budget in an Excel sheet. Rentar has three types of automobiles it allows people to rent: cars, vans and trucks. The costs are: car - \$109.99/day, van - \$122.00/day, and truck - \$145.99/day. The number of people that visit Rentar per year fluctuates between 10125 to 14700. Of the people that visit Rentar, 72% rent cars, 21% rent vans, and 5.5% rent trucks. Rentar also employs between 5 to 9 people to assist renters. This includes two senior executives. The assistants are paid \$42000 and the seniors are paid \$85000. Your task is to establish the budget.

Category	Level 5	Level 4	Level 3	Level 2	Level 1
Organization, proper bolded headings, all numbers are inputted in cells.	Thorough	Considerable	Some	Limited	None
Correct formulas used, logical step-by-step approach is used to derive the answer.	Thorough	Considerable	Some	Limited	None

### Section 3 - Thursday, June 5<sup>th</sup>, 2014, with RoboMind

1) Open *RoboMind*

2) On the default map that opens up, move the robot into the following location and direction, as shown in the diagram below.



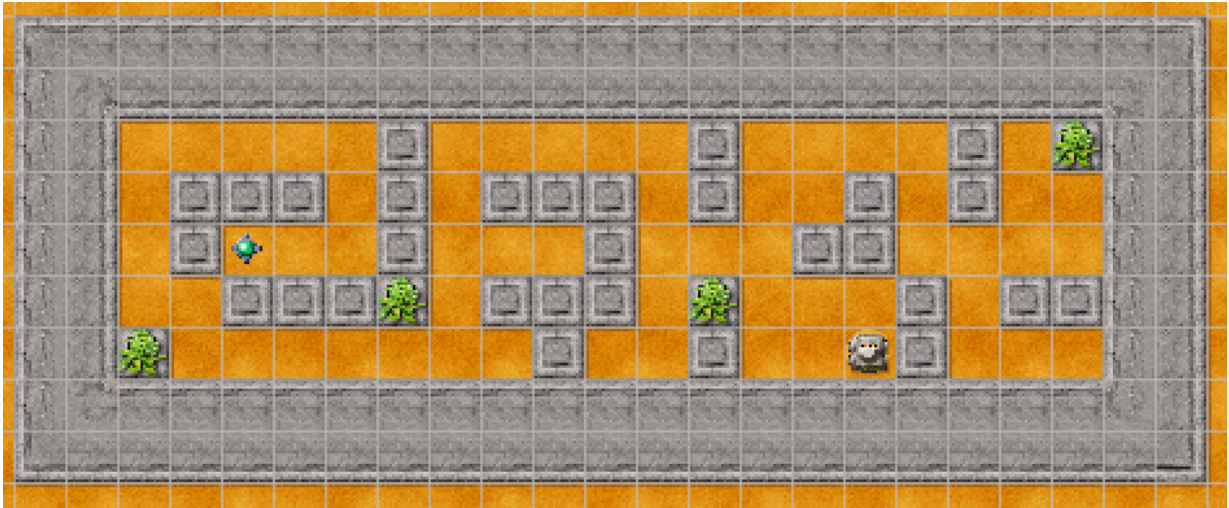
3) Write a general algorithm that makes the robot move around the grey block in a clockwise fashion.

Category	Level 5	Level 4	Level 3	Level 2	Level 1
Student demonstrates a thorough understanding of the repeat command and if-else conditional statements. The robot is programmed to succeed according to the objective.	Thorough	Considerable	Some	Limited	None

4) Write a general algorithm that makes the robot move around the grey block in a clockwise fashion.

Category	Level 5	Level 4	Level 3	Level 2	Level 1
Student demonstrates a thorough understanding of the repeat command and if-else conditional statements. The robot is programmed to succeed according to the objective.	Thorough	Considerable	Some	Limited	None

4) Open the map called Maze2.map and write a general algorithm that makes the robot find the green beacon.



Category	Level 5	Level 4	Level 3	Level 2	Level 1
Student demonstrates a thorough understanding of the repeat command and if-else conditional statements. The robot is programmed to succeed according to the objective.	Thorough	Considerable	Some	Limited	None

#### Section 4 - Friday, June 6<sup>th</sup>, 2014, with PowerPoint/Keynote

5) Make a PowerPoint (or Keynote) presentation file on cyber bullying.

The presentation should show a developing fictional story in its slides. It should have between 10 to 15 slides. The setting of the story should be based in a Canadian middle school (grades 6 to 8). The first couple of slides should introduce how the cyber bullying begins, the middle slides should describe the climax of the situation, and the last slides should be devoted to problem solving.

Each slide should look like a scene from a comic book. You are to use Shape Art to make characters and insert text boxes to show the dialogue between them.

Category	Level 5	Level 4	Level 3	Level 2	Level 1
Student demonstrates a thorough understanding of cyber bullying in schools (i.e., common origins, climax, problem solving).	Thorough	Considerable	Some	Limited	None
Student demonstrates a thorough application of shape art and text boxes to create a dialogue similar to a comic book on cyber bullying.	Thorough	Considerable	Some	Limited	None