Computer Technology 9

Unit 2 Assessment:

What You See Is Not Always What You Get



How can automation replace humans?

Scholar Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Computer Technology 9**

**IB MYP Assessment: What You See Is Not Always What You Get**

**Unit Essential Question:**

 How can automation replace human responses?

**Your Challenge:**

Many streets have traffic cameras to catch drivers who violate traffic laws – like running a red light, speeding, or not paying a toll. These cameras will capture a picture of the rear license plate. Using this information, create a computer generate traffic ticket which will be sent to the owner of the vehicle.

**Design Cycle:**

You must use the **IB MYP TECHNOLOGY DESIGN CYCLE** throughout this project.

**Criterion A: Investigate-** Investigation is an essential stage in the design cycle. Scholars are expected to identify the problem, develop a design brief and formulate a design specification. Scholars are expected to acknowledge the sources of information and document these appropriately.

**For this project scholars should:**

* **Explain the problem and its personal, local and/or global relevance.**
* **Document their investigation of visual representations and the specifics they will need to produce these products/solutions.**
* **Collect information, from provided and researched sources, organize it logically and begin to analyze it.**
* **Explain how they will test the effectiveness of your product/solution.**

**Criterion B: Design-** Scholars are expected to generate several feasible designs that meet the design specification and to evaluate these against the design specification. Scholars are then expected to select one design, justify their choice and evaluate this in detail against the design specification.

**For this project scholars should:**

* **Generate three or more designs of a functional visual display.**
* **Evaluate each of the designs against each other.**
* **Select one design, explaining its choice.**

 **Criterion C: Plan-** Scholars are expected to construct a plan to create their chosen product/solution that has a series of logical steps, and that makes effective use of resources and time. Scholars are expected to evaluate the plan and justify any modifications to the design.

**For this project scholars should:**

* **Construct a plan to create a solution that makes effective use of resources and time**
* **Evaluate the plan and justify any needed modifications.**

**Criterion D: Create-** Scholars are expected to document, with a series of photographs, screenshots or a video and a dated record, the process of making their product/solution, including when and how they use tools, materials and techniques. Scholars are expected to follow their plan, to evaluate the plan and to justify any changes they make to the plan while they are creating the product/solution.

**For this project scholars should:**

* **Follow the plan and build their visual presentation within the allotted time.**
* **The process should be documented with screenshots and dates.**

**Criterion E: Evaluate-** Scholars are expected to evaluate the product/solution against the design specification in an objective manner based on testing, and to evaluate its impact on life, society and/or the environment. Scholars are expected to explain how the product/solution could be improved as a result of these evaluations. Scholars are expected to evaluate their own performance at each stage of the design cycle and to suggest ways in which their performance could be improved.

**For this project scholars should:**

* **Evaluate their work and the process in writing.**

**Criterion F: Attitudes in Technology-** This criterion refers to scholars’ attitudes when working in technology. It focuses on an overall assessment of two aspects: personal engagement (motivation, independence, general positive attitude) and attitudes towards safety, cooperation and respect for others.

**For this project scholars should:**

* **Document their attitude in technology, by using the “Attitudes in Technology” specific rubric.**

**Design Packet:**

As you progress through the different stages of the design cycle, all relevant activities and outcomes should be recorded, and dated, in the design packet.

**Purpose:**

* To develop practical skills for the construction of informative visual presentation.
* To develop an understanding of all phases of the IB MYP Technology Design Cycle.
* Use knowledge, skills, and techniques learned in class to create products/solutions of appropriate quality.
* Develop problem-solving, critical, and creative thinking skills through the application of the design cycle.

**Resources:**

* Internet and print publications.
* Computers with Internet access.
* The assignments and other handouts related to the unit.
* Notes and presentations.

**Assessment:**

There are six phases of the design cycle and each phase is worth six points for a total of 36.

A Rubric is on the last page.

**A**

**A**

**Design Cycle Documentation**

**Criterion A - Investigate**

**1.1 In your own words, describe the problem that you are attempting to solve:**

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**1.2 Brainstorm a list of five types of traffic tickets you could design and build. Explain why.**

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**1.3 From your list of five possible solutions, which one do you want to research and build?**

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**1.4 Summarize the characteristics and key information about this type of ticket**

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**B**

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**Criterion B - Design**

**Draw the different designs of your solution for the ticket you are going to create.**

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| Design #1Design #2Design #3 |

**2.1 After hand-drawing the different designs, you must select which one you are going to plan for and then create. In this space below state which design you are going to use and why.**

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**Design Cycle Documentation**

**C**

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**Criterion C - Plan**

**3.1 What must you accomplish to complete this project?**

Step 1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by this date: \_\_\_\_\_\_\_\_\_\_\_\_

Step 2: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by this date: \_\_\_\_\_\_\_\_\_\_\_\_

Step 3: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by this date: \_\_\_\_\_\_\_\_\_\_\_\_

Step 4: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by this date: \_\_\_\_\_\_\_\_\_\_\_\_

Step 5: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by this date: \_\_\_\_\_\_\_\_\_\_\_\_

Step 6: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by this date: \_\_\_\_\_\_\_\_\_\_\_\_

Step 7: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by this date: \_\_\_\_\_\_\_\_\_\_\_\_

Step 8: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by this date: \_\_\_\_\_\_\_\_\_\_\_\_

Step 9: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by this date: \_\_\_\_\_\_\_\_\_\_\_\_

Step 10: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by this date: \_\_\_\_\_\_\_\_\_\_\_\_

Step 11: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by this date: \_\_\_\_\_\_\_\_\_\_\_\_

Step 12: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by this date: \_\_\_\_\_\_\_\_\_\_\_\_

Step 13: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by this date: \_\_\_\_\_\_\_\_\_\_\_\_

Step 14: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by this date: \_\_\_\_\_\_\_\_\_\_\_\_

Step 15: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by this date: \_\_\_\_\_\_\_\_\_\_\_\_

Step 16: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by this date: \_\_\_\_\_\_\_\_\_\_\_\_

Step 17: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by this date: \_\_\_\_\_\_\_\_\_\_\_\_

Step 18: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by this date: \_\_\_\_\_\_\_\_\_\_\_\_

Step 19: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by this date: \_\_\_\_\_\_\_\_\_\_\_\_

Step 20: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by this date: \_\_\_\_\_\_\_\_\_\_\_\_

Step 21: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by this date: \_\_\_\_\_\_\_\_\_\_\_\_

Step 22: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by this date: \_\_\_\_\_\_\_\_\_\_\_\_

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**D**

**D**

**Design Cycle Documentation**

**Phase 4 Create**

**4.1 Create your product/solution according to your plan.**

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4.2 **Explain any modifications you made to enhance quality.**

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**Phase 5 Evaluate**

5.1 Was your project able to meet your goal of designing and then creating the best product/solution possible? Which specific product/solution did you design? Explain why you chose this product/solution instead of the others.

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5.2 Of the six phases of the design cycle, what are the areas that need improvement?

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5.3 What was your biggest challenge? Why?

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5.4 Did everything work as planned? If not what went wrong?

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**Phase 6 Attitudes in Technology**

6.1 My thoughts on my personal engagement in this project, specifically relating to motivation, independence and positive attitude are:

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6.2 My thoughts on using the design cycle to document my learning are:

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6.3 My thoughts on my time management on this project in general are:

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6.4 My thoughts on this project in general are:

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| 6.5 Using the criteria below, rate yourself on your overall “Attitudes in Technology”.This criterion refers to students’ attitudes when working in technology. It focuses on an overall assessment of two aspects:* Personal engagement(motivation, independence, general positive attitude)
* Attitudes toward safety, cooperation and respect for others

By their very nature these qualities are difficult to quantify and assess, and assessment should therefore take into account the context in which the unit of work was undertaken. |
| Achievement Level | Level Descriptor |
| 5-6 | The student has:[ ]  Consistently displayed a satisfactory standard in both of the aspects listed above. |
| 3-4 | The student has:[ ]  Occasionally displayed a satisfactory standard in both of the aspects listed above. |
| 1-2 | The student has:[ ]  Occasionally displayed a satisfactory standard in one of the aspects listed above. |
| 0 | [ ]  No achievement level reached |

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| **Score** | **Investigate Phase** | **Design Phase** | **Plan Phase** | **Create Phase** | **Evaluate Phase** | **Attitude in Tech Phase** |
|  | The student has: | The student has: | The student has: | The student has: | The student has: | The student has: |
| 5-6 | [ ]  1. Explained the problem discussing personal, local and/or global relevance.[ ]  2. Critically investigated the problem through evaluation of a broad range of material.[ ]  3. Described detailed methods for appropriate testing. | [ ]  1. Generated a range of designs.[ ]  2. Evaluated each design against the design specifications.[ ]  3. Justified the chosen design and evaluated it fully against the design specification. | [ ]  1. Produced a plan that contains a number of detailed steps and describe the use of resources.[ ]  2. Critically evaluated the plan and justified any modifications. | [ ]  1. Competently used appropriate techniques and equipment.[ ]  2. Followed the plan and justified any modifications.[ ]  3. Created a product/solution of appropriate quality using resources available. | [ ]  1. Evaluated the success of product/solution in an objective manner based on test results.[ ]  2. Provided an evaluation of their performance at each stage of design cycle.[ ]  3. Provided an appropriate evaluation of the impact of product/solution on environments. | [ ]  1. Consistently displayed a satisfactory standard in both of the aspects required. |
| 3-4 | [ ]  1. Described the problem, mentioning personal, local and/or global relevance.[ ]  2. Investigated the problem by analyzing relevant sources.[ ]  3. Described a test to evaluate the product. | [ ]  1. Generated a few designs.[ ]  2. Justified the choice of one design.[ ]  3. Fully evaluated their chosen design to the design specifications. | [ ]  1. Produced a plan that contains a number of logical steps including resources.[ ]  2. Made some attempt to evaluate the plan. | [ ]  1. Used appropriate techniques and equipment.[ ]  2. Followed the plan, mentioning any modifications.[ ]  3. Created a product/solution of good quality. | [ ]  1. Evaluated the product/solution and own performance.[ ]  2. Suggested ways in which these evaluations could improve.[ ]  3. Tested product/solution to evaluate it against the design specifications. | [ ]  1. Occasionally displayed a satisfactory standard in both of the aspects required. |
| 1-2 | [ ]  1. Stated the problem.[ ]  2. Investigated by collecting information.[ ]  3. Listed some specifications of product. | [ ]  1. Generated one design.[ ]  2. Made some attempt to justify the design to the design specifications. | [ ]  1. Produced a plan that contains some details of the needed steps and/or resources. | [ ]  1. Considered the plan.[ ]  2. Created at least part of the product/solution. | [ ]  1. Evaluated the product/solution or own performance.[ ]  2. Made some attempt to test the product/solution. | [ ]  1. Occasionally displayed a satisfactory standard in one of the aspects required. |
| 0 | [ ]  No Level Reached | [ ]  No Level Reached | [ ]  No Level Reached | [ ]  No Level Reached | [ ]  No Level Reached | [ ]  No Level Reached |