**LESSON SCRIPT - 2022-2023**

Week 3 Lesson 1

**1. Mastery Skills (at my school it is mastery based) :**

- I can solve problems and build software using computational thinking principles.
- I can solve problems and build software using programming principles.

**2. Learning Objective(s)**

- Using the code that was provided to them, the Grade 10 students will write pseudocode that explains what the code does.

**3. Assessment(s):**

- Students will create pseudocode for the code provided, done in Canvas. The code exercises do different things, one creates a square that gets bigger over time and the other is a ball that can go around the computer screen within a 200 x 200 shaped box. There are mild, medium, and spicy versions of each of the code bases for students to differentiate between skill levels.
- This lesson will serve as an introduction to Canvas, which will be an important one for the students to understand. The next lesson will be with flowcharts and the following one will be creating the actual code. This lesson is very important for students to be able to complete the project on their own.

**4. Setup and Resources:**

- Agenda
    - Warm up
    - Refresher on Pseudocoding. There will be emphasis on students to understand why pseudocode is important for coding. Students will be broken up into groups and will explain why they feel that pseudocoding is important to coding, before they start the assessment.
    - Practice/Application:

- Resources

**4. Procedure: Learning Activities/Tasks**

| **Lesson section / Time allotted** | **Teacher(s)** | **Students** | **Differentiation (Strategies/Groups/Scaffolds)** |
|---|---|---|---|
| Do Now/ Warm-Up ( 5 min) | | | |
| Mini Lesson ( 10 min) | 5 minute video on pseudocode + group discussion on why it is important for coding.<br>What is Pseudocode? Video from Code Academy<br>Go over the video afterwards | | Groups will be created for the students to discuss the importance of pseudocoding. It is important for them to understand the concept before diving straight into the practice/application. |
| Practice / Application ( 15 min) | The teaching part of the lesson. | | |
| Assessment ( 20min) | | | There are mild, medium and spicy versions for the different levels of students to do the pseudocode. |
| Closing / HW ( min) | | | |

**5. Lesson Reflection:**

| Three elements that were successful in this lesson were... | Three elements I would like to modify for next time are... |
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