**Class Plan – JS For Loops**

**Digital Excellence Program – Sample Class Plan**

| **Time Slot** | **Activity** | **Description** |
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| **First 5 minutes** | Warm-up & Reflection | - Quick recap: How would you print numbers from 1 to 10 using console.log?  - Let a few students try writing repetitive code.  - Ask: Is there a better way to avoid writing the same code again and again? |
| **30 minutes** | Core Concept Explanation – for loop | - Syntax of `for` loop:  for (initialization; condition; increment) {  // code block  }  - Break down: initialization, condition, increment  - Explain flow of control with diagram or whiteboard  - Example:  for (let i = 1; i <= 5; i++) {  console.log(i);  } |
| **60 minutes** | Activity - | - Students try writing:   1. A program to print hello world 10 times.   2. A program to print the multiplication table of 5  3. . A program to print \*\*\*\*\*  4. Other pattern problems included in the micro projects document. |
| **5 minutes** | Class Wrap-up | - Quick oral quiz:  • What are the three parts of a `for` loop?  • What happens if the condition is always true?  • What is the final value of i here?  for (let i = 0; i < 5; i++) { console.log(i); }  • What’s wrong with:  for (let i = 0; i > 5; i++) { console.log(i); } |

**Topic: JavaScript – For Loops**

## **References for Class:**

* [MDN - For Loop](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Statements/for)
* [W3Schools For loop](https://www.w3schools.com/js/js_loop_for.asp)