JS BASICS

WHAT YOU CAN USE	EXAMPLE
External script	`// Include external script should be in head tags with defer keyword` `<head>` `  <script src="main.js" defer></script>` `</head>`
Comment code	`/* This is` `  a multiple line comment` `*/` `// This is a single line comment`
Write on **console**	`// Write on console` `console.log("PNC");` `console.table(array);`
Declare a **variable** or a **constant**	`// Declare a constant` `const RED = "RED"` `// Declare a variable` `let count = 0`
Loop on a specific range	`// 0 to 2` `for (let i=0; i<=2; i++) {` `  console.log(i);` `}` `// 5 to 2` `for (let i=5; i>=2; i--) {` `  console.log(i);` `}`
Loop on an array: by value or by index	`// loop by index` `array = ["a", "b", "c", "dd"]` `for(index in array){` `  console.log(array[index]);` `}` `// loop by value` `for(value of array){` `  console.log(value);` `}`

Loop with while	```let x = 0; while(x != 5){ console.log(x); x++; }```
Conditions	```// if – else if – else let a = 10; if (a > 4){ console.log(“yes”); } else if (a < 10) { console.log(“No”); } else if (a == 10) { console.log(“Maybe”); } else { console.log(“Okay”); }```
Operations on **numbers**	```// increment x = 10; x++; // OR x += 1 // module console.log(10%3); // power console.log(4 ** 2);```
Operations on **strings**	```// Substring "abcd".substring(1); // bcd // Access to a character "abcd" [2]; // c // To upper / to lower case "aBcD".toUpperCase(); // ABCD "aBcD".toLowerCase(); // abcd // string to integer let text = “33”; parseInt(text); // 33 // integer to string let number = 68; number.toString(); // ‘68’```
Operations on **Booleans**	```// == double equal 4 == 5 // false "4" == 4 // true```

	`` // === triple equal 4 === 5 // false "4" === 4 // false // logical operators (true and 4>1) or false // true ```
Operations on **arrays**	``` // Create empty array let array = []; // Create array with values let numbers = [1,2,3,4,5,6]; // Access using index numbers[2]; // 3 // Insert value at the end [1,2,3].push(20); // [1,2,3,20] // Remove last index [1,2,3].pop(); // [1,2] // Remove a value at specific index [1,2,3].splice(0, 1); // [2,3] // Insert value at a specific index [1,2,3].splice(1, 0, 99); // [1,99,2,3] // Check if array including value [1,2,3].includes(2); // true // Get the index of the first occurrence of a value [1,2,3,2,2].indexOf(2); // 1 ```
Operations on **objects**	``` // Create an object with properties let student = {name: ”him”, age:20}; // Access to an object property student.name) // Add a new property student.address = "Cambodia" ```
Functions	``` // Declare a function with parameter function average(a, b) { return (a + b) / 2; } // Declare a function – arrow style const average = (a, b) => (a + b) / 2 ; // call a function average(10, 20); ```

RECOMMENDATIONS

DONT USE…	WHY?	INSTEAD USE…
var	var will declare the variable globally	Let or const
alert / confirm	Not user friendly	Use the console to log something