**Variables:**

* In VS Code, open Demos>JavaScript>variables>variables\_start.html in a live server
* Explain to students that we will be writing JS inside of an html file by using script tags
* Create 3 variables, each with a different declaration, ex.
  + var a = 1
  + let b = 2
  + const c = 3
* Console.log all 3 variables
* Attempt to reassign all 3 variables, ex.
  + a
* Console.log the variables again – when you receive an error for attempting to reassign a const, comment out the line causing the error
* Attempt to redeclare all 3 variables, ex.
  + var a = 7
  + let b = 8
  + const c = 9
* Console.log the variables again – when you receive errors for attempting to redeclare a let and a const, comment out the lines causing the errors

**Arrays:**

* Open Demos>JavaScript>arrays
* Start arrays.html in a live server and open the browser console
* In arrays\_start.js, create an array with multiple kinds of values (ex. [1, “hello”, true, 8.97])
* Call forEach on the array and pass in a function that takes a value argument and calls console.log(value)
* Reload the web page to see the results in the console
* Update the function to an arrow function and reload the page again
* Before the forEach call, call pop on the array and reload the page again
* Comment out the forEach call
* Call push() on the array and pass in the value “world”
* Console log a template literal that will print “hello world” using the new element in the array
* Reload the web page to see the results in the console
* Comment out the template literal console log
* Console log the indexOf an item in the array and an item not in the array
* Reload the web page to see the results in the console

**Functions:**

* Open Demos>JavaScript>functions
* Start functions.html in a live server and open the browser console
* In functions\_start.js, create a simple addition function
* Call the addition function and pass in 2 random numbers, reload the page
* Create a function called getYearsFromRetirement
  + Create a block scope variable for currentAge that prompts the user for their age
  + Alert a template literal with 65 minus the currentAge as the number of years until retirement
* Call the function, reload the page, and enter a number less than 65
* Add an if statement that alerts if the user is already retirement age if they are 65 or older
* Reload the page and enter a number over 65
* Add an else if that checks that the age passed in is a positive number and asks the user to try again
* Reload the page and enter a negative age