Module 1: Introduction to JS basics

In this Module:

Basic concepts of Javascript language.
- Data structures
- Operations
- Conditional logic
- Loops
- Basic functions

A re-introduction to JavaScript:

https://developer.mozilla.org/en-US/docs/Web/JavaScript/A_re-introduction_to_JavaScript

Introduction to JavaScript (video):

- Data types
- Variables
- Strings
- Numbers
- Booleans
- Arrays
- Objects
- Arithmetic operations
- Relational operations
- Increment & decrement
- If, else if, else
- Switch statements
- For loops
- While & Do While
- Functions

https://www.youtube.com/watch?v=_y9oxzTGERs

Understanding Variable Scope & Closures Without Losing your Mind

"*In JavaScript there are two types of scope:*
- *Local scope*
- *Global scope*

JavaScript has function scope: Each function creates a new scope.
Scope determines the accessibility (visibility) of these variables.
Variables defined inside a function are not accessible (visible) from outside the function.."
https://www.youtube.com/watch?v=iSlSxDNarDY

let vs var:

"var and let are both used for function declaration in javascript but the difference between them is that var is function scoped and let is block scoped"
https://www.youtube.com/watch?v=q8SHaDQdul0

const:

"Constants are block-scoped, much like variables defined using the let statement. The value of a constant cannot change through reassignment, and it can't be redeclared."
https://www.youtube.com/watch?v=2iLVFyYwyRA

var, let and const - What, why and how

"In this video, we explore the what, why, and how of var, let and const, and I also do a little lecture on the value of minimising mutable state"
https://www.youtube.com/watch?v=sjyJBL5fkp8

Grammar and types documentation

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide/Grammar_and_types#Declarations

Typing: Static vs Dynamic, Weak vs. Strong

"Learn about types in JavaScript, and understand the difference between dynamic and static typing and weak and strong typing."
https://www.youtube.com/watch?v=C5fr0LZLMAs

JS Equality table:

"Why you should never use == and always ==="
https://dorey.github.io/JavaScript-Equality-Table/

ES6 presentation (by Natalia Gruzdeva)

https://slides.com/ginvaell/es6#/