### ****Week 1: JavaScript Basics****

#### ****~~Day 1-2:~~**** ~~Variables & Data Types~~

📌 Learn about let, const, var & data types (String, Number, Boolean, Array, Object).  
🛠 **Practice:** Declare different variables & log them in the console.

#### ****~~Day 3-4:~~**** ~~Operators & Conditionals~~

📌 Learn arithmetic, comparison, logical operators.  
📌 if-else, ternary operators, switch statements.  
🛠 **Practice:** Write a program to check if a user can vote based on age.

#### ****~~Day 5-6:~~**** ~~Loops (for, while, do-while)~~

📌 Understand different loop types & their use cases.  
🛠 **Practice:** Create a loop that prints numbers 1-10 & a loop that sums even numbers.

#### ****Day 7:**** Functions (Basics)

📌 Learn function declarations, expressions, arrow functions.  
🛠 **Practice:** Write a function that returns the square of a number.

### ****Week 2: DOM Manipulation & Events****

#### ****Day 8-9:**** Selecting Elements

📌 document.getElementById(), querySelector(), querySelectorAll().  
🛠 **Practice:** Select an element & change its text using JavaScript.

#### ****Day 10-11:**** Events & Event Listeners

📌 click, input, keydown events.  
🛠 **Practice:** Create a button that changes the page background color on click.

#### ****Day 12-13:**** Modifying HTML & CSS

📌 innerHTML, style, classList.add/remove.  
🛠 **Practice:** Build a simple interactive webpage that updates content dynamically.

#### ****Day 14:**** Mini-Project → ****To-Do List****

🛠 Create a **basic to-do list** where users can add and remove tasks.

### ****Week 3: Arrays, Objects & Local Storage****

#### ****Day 15-16:**** Objects & Methods

📌 Create objects & access properties/methods.  
🛠 **Practice:** Create a person object & log their details.

#### ****Day 17-18:**** Arrays & Methods

📌 Learn map, filter, reduce, forEach.  
🛠 **Practice:** Use .map() to double numbers in an array.

#### ****Day 19-20:**** Local Storage

📌 Store & retrieve data using localStorage.  
🛠 **Practice:** Store a user’s name & display it when they revisit.

#### ****Day 21:**** Mini-Project → ****Notes App****

🛠 Create a simple **Notes App** that saves notes in local storage.

### ****Week 4: Async JS & APIs****

#### ****Day 22-23:**** Callbacks & Promises

📌 Learn about setTimeout, fetch(), Promises.  
🛠 **Practice:** Use setTimeout to delay a message.

#### ****Day 24-25:**** async/await & Fetch API

📌 Fetch data from an API & display it.  
🛠 **Practice:** Get weather data from an API & show results in the console.

#### ****Day 26:**** Error Handling (try...catch)

📌 Learn debugging & error handling.  
🛠 **Practice:** Catch an error in a function & log it.

#### ****Day 27-28:**** Mini-Project → ****Weather App****

🛠 Build a simple **Weather App** using the Fetch API.

### ****Week 5: Advanced JS & OOP****

#### ****Day 29-30:**** ES6+ Features

📌 Destructuring, Spread/Rest operators, Template literals.  
🛠 **Practice:** Use spread operator to merge two arrays.

#### ****Day 31-32:**** Object-Oriented Programming (OOP)

📌 Classes & Inheritance.  
🛠 **Practice:** Create a Car class with properties & methods.

#### ****Day 33-34:**** More on Local Storage & Session Storage

📌 Storing user preferences (like theme settings).  
🛠 **Practice:** Save & retrieve a user’s preferred theme.

#### ****Day 35-36:**** Mini-Project → ****E-commerce Cart****

🛠 Build an **E-commerce Cart** where users can add/remove items.

### ****Week 6: Wrapping Up & Prepping for React****

#### ****Day 37-38:**** Event Loop & Performance Optimization

📌 Learn how JS executes code (call stack, event loop).  
🛠 **Practice:** Write a script with setTimeout & console.log to see how JS executes tasks.

#### ****Day 39-40:**** Final Project → ****Mini E-commerce Site****

🛠 Build a mini e-commerce page with:  
✅ Product listing  
✅ Add-to-cart functionality  
✅ Local storage for cart items