# JavaScript Learning Progress

## Phase 1: Basics – ✅ Completed

✔ Variables (let, const, var)

✔ Data types (string, number, boolean, null, undefined, object, array)

✔ Operators (arithmetic, comparison, logical, assignment)

✔ Comments (//, /\* \*/)

✔ Conditional statements (if, else if, else)

✔ Loops (for, while, do...while)

✔ Functions (declaration, expression)

✔ Function parameters & default parameters

✔ Objects & Arrays (basic creation & access)

## Phase 2: Intermediate – 🚀 In Progress

✔ Arrow functions (() => {})

✔ Template literals (`Hello ${name}`)

✔ Destructuring (arrays & objects)

✔ Spread & Rest operators (...)

✔ Array methods: forEach, map, filter, reduce, some, every, find, findIndex

✔ Object methods: Object.keys(), Object.values(), Object.entries()

⬜ Modules: export / import

⬜ DOM manipulation (querySelector, getElementById)

⬜ DOM content & styles (textContent, innerHTML, classList)

⬜ Event listeners (addEventListener)

⬜ Form events (submit, input, change)

## Phase 3: Advanced – ⏭ Coming Next

⬜ this keyword

⬜ Classes & constructor functions

⬜ Inheritance (extends, super)

⬜ Asynchronous JS: callbacks, promises, async/await

⬜ Fetch API

⬜ Error handling (try...catch, throw)

⬜ Optional chaining (?.) & nullish coalescing (??)

## Phase 4: React Prep – 🎯 Final Step Before React

⬜ Immutability & state-like updates

⬜ Functional programming basics

⬜ Conditional rendering logic

⬜ Event handling patterns (onClick, onChange, passing functions as props)

⬜ JS + JSX understanding