# JavaScript Learning Checklist for React

## Phase 1: Basics

* 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

* 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 (document.querySelector, getElementById)
* DOM content & styles (textContent, innerHTML, classList)
* Event listeners (addEventListener)
* Form events (submit, input, change)

## Phase 3: Advanced

* 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

* Immutability & state-like updates
* Functional programming basics
* Conditional rendering logic
* Event handling patterns (onClick, onChange, passing functions as props)
* JS + JSX understanding