

# JavaScript Interview Preparation Plan

From Beginner to Advanced

## 1. Weeks 1–2: Fundamentals (Beginner Level)

### What to Study

- JavaScript syntax and variables (`let`, `const`, `var`)
- Data types: string, number, boolean, null, undefined, symbol, object
- Basic operations: arithmetic, assignment, comparison, logical
- Arrays and essential methods (`push`, `pop`, `map`, `filter`, `reduce`)
- Functions, scope, and hoisting
- Conditionals and loops

### Suggested Resources

- [W3Schools JavaScript Tutorial](#)
- LeetCode's 30 Days of JavaScript
- Practice: Build small projects (e.g., to-do app, basic calculator)

## 2. Weeks 3–4: Intermediate Concepts

### What to Study

- Objects, object methods, and prototypes
- The `this` keyword and binding
- Closures and lexical scope
- Error handling (try-catch)
- ES6+ features: arrow functions, destructuring, template literals, spread/rest
- Events and DOM manipulation
- JSON and APIs (fetch, axios)

### Practice

- Build interactive UIs (weather dashboard, blog template)
- Solve interview-style problems on arrays and objects

## Suggested Resources

- FreeCodeCamp Interview Prep Cheatsheet
- GeeksforGeeks: Basic to Intermediate Interview Questions

## 3. Weeks 5–6: Advanced JavaScript

### What to Study

- Asynchronous JS: callbacks, promises, async/await, event loop
- ES6 Modules: import/export
- Advanced array/object methods (`find`, `some`, `every`, etc.)
- Memory management and garbage collection basics
- Functional programming (higher-order functions, currying, composition)
- Design patterns in JavaScript
- Debouncing, throttling, polyfills
- Advanced error handling

### Interview Practice

- Mock interviews (GreatFrontend, LeetCode, GeeksforGeeks)
- System design and project questions (e.g., designing a scalable search bar)

## Suggested Resources

- [sudheerj/javascript-interview-questions \(GitHub\)](https://github.com/sudheerj/javascript-interview-questions)
- GeeksforGeeks: Advanced Interview Questions
- Indeed: Advanced JS Interview Questions

## 4. Weeks 7–8: Full-Package Interview Readiness

### What to Do

- Practice coding rounds: string, sorting, searching, recursion
- Build a portfolio project (e-commerce, game, dashboard, etc.)
- Review top 30+ most-asked questions and solutions
- Study problem-solving with time and space analysis

## Soft Skills & System Design

- Practice explaining your code and reasoning
- Review and polish your portfolio/demo projects
- Learn brief basics about frontend frameworks (e.g., React, if needed)

## Helpful Platforms

- [Roadmap.sh JavaScript Interview Questions](#)
- GreatFrontend resources

## Common Interview Topics Table

Topic	Level	Example Question
Variables, Data Types	Beginner	What is the difference between <code>null</code> and <code>undefined</code> ?
Functions, Scope, Hoisting	Beginner	How does function hoisting work in JavaScript?
Objects, <code>this</code> , Prototypes	Intermediate	What is the purpose of prototypes in JavaScript?
Closures and Callbacks	Intermediate	Explain closures with an example.
Promises, Async/Await	Advanced	How do promises differ from callbacks?
Event Loop	Advanced	Describe how the JavaScript event loop works.

Functional Programming	Advanced	What are higher-order functions?
Performance Patterns	Advanced	What is throttling and when would you use it?

## Tips for Success

- Practice Coding: Build and explain code, not just review theory.
- Solve Real Problems: Use LeetCode, HackerRank, and similar platforms.
- Mock Interviews: Simulate interviews to build confidence.
- Portfolio Projects: Even small projects demonstrate your skills.

## Highly Recommended Resources

- [GeeksforGeeks JavaScript Interview Questions](#)
- [GitHub: sudheerj/javascript-interview-questions](#)
- [FreeCodeCamp JavaScript Interview Cheatsheet](#)
- [Indeed India Advanced JS Questions](#)
- [Roadmap.sh JavaScript Questions](#)
- [W3Schools JavaScript](#)
- [GreatFrontend](#)