JavaScript Roadmap (Beginner to Frameworks)

1. HTML & CSS

You must know how to structure and style web pages.

Topics: HTML tags, forms, CSS selectors, flexbox, grid, media queries.

Learn from:

- freeCodeCamp (Responsive Web Design)

- Traversy Media (YouTube)

2. JavaScript Basics

Topics: Variables, data types, operators, conditionals, loops, functions, scope, arrays, objects.

Learn from:

- freeCodeCamp

- Scrimba

- The Net Ninja YouTube channel

3. DOM Manipulation & Events

Topics: DOM selectors, innerHTML, event listeners, form validation, dynamic element creation.

Projects: Calculator, To-do app, Modal box.

Learn from: freeCodeCamp, Traversy Media

4. Advanced JavaScript

Topics: Closures, hoisting, 'this', array methods (map, filter), async/await, JSON, Promises.

Learn from: JavaScript.info, Net Ninja (YouTube)

5. ES6+ Modern JS

Topics: Arrow functions, template literals, destructuring, spread/rest, import/export.

Learn from: Academind, freeCodeCamp

6. Asynchronous JavaScript & APIs

Topics: fetch, async/await, Promises, working with real APIs.

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Project: Weather app

Learn from: Net Ninja, freeCodeCamp

7. Git & GitHub

Topics: git init, commit, push, pull, branches, GitHub repositories.

Learn from: freeCodeCamp, Traversy Media

8. React.js

Topics: Components, props, state, useEffect, React Router, forms, fetch APIs.

Project: Weather app, calculator, blog UI

Learn from: freeCodeCamp, Scrimba, Net Ninja

9. Node.js + Express

Topics: Node basics, Express, routing, REST APIs, middleware, MongoDB connection.

Projects: REST API, blog backend, login system.

Learn from: The Odin Project, Traversy Media

10. MongoDB

Topics: Collections, documents, CRUD, Mongoose ODM.

Projects: Notes app, contact form storage.

Learn from: MongoDB University, Traversy Media

11. Full Stack (MERN)

Stack: MongoDB + Express.js + React.js + Node.js

Project Ideas: Portfolio site, blog platform, task manager.

Goal: Complete full-stack app with backend + frontend + DB.

12. Study Plan (Sample)

Week 1-2: HTML/CSS

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Week 3-4: JavaScript + DOM

Week 5-6: Advanced JS + APIs + Git

Week 7-8: React

Week 9-10: Node + Express

Week 11: MongoDB

Week 12+: MERN project