

# DOM Learning Roadmap (20 Days Plan)

## Phase 1: Basics (Day 1–3)

- Selecting elements (ID, class, tag, querySelector, querySelectorAll)
- Editing text, attributes, styles
- Creating/removing elements (createElement, appendChild, remove)
- Simple event handling (onclick, addEventListener)
- Project: Dynamic Quote Box (Click button → shows random quote)

## Phase 2: Intermediate (Day 4–7)

- Traversing the DOM (parent, children, siblings)
- Class manipulations (classList.add/remove/toggle)
- Handling forms (input, validation, submit)
- Event bubbling & delegation
- Inline vs external styles with JS
- Projects: Form Validator, FAQ Accordion

## Phase 3: Advanced (Day 8–12)

- Custom events (new Event, dispatchEvent)
- Clipboard API (navigator.clipboard.writeText)
- Drag & drop API
- LocalStorage & SessionStorage
- DOM performance (DocumentFragment, reflows)
- Projects: Notes App, Drag & Drop Task Manager (Trello-lite)

## Phase 4: Pro-Level (Day 13–18)

- Animations (requestAnimationFrame)
- IntersectionObserver (lazy loading images)
- MutationObserver (watch DOM changes)
- Shadow DOM basics
- Accessibility (ARIA attributes)
- Projects: Lazy Load Image Gallery, Live Character Counter with Animation, Theme Switcher (Light/Dark Mode with storage)

## Phase 5: DOM + API Integration (Day 19–20)

- Fetch API + DOM (rendering data dynamically)
- Handling JSON & rendering lists/cards
- Error handling in DOM (loading indicators, errors)
- Final Project: Weather Dashboard / News Feed → fetch API + DOM + styling