

# Introduction to JavaScript

GoSkills online course syllabus

**Skill level**

Beginner

**Lessons**

40

**Accredited by**

CPD

**Pre-requisites**

No prior experience needed

**Video duration**

2h 41m

**Estimated study time**

4h 43m

**Instructor**

John Elder

## Course Introduction

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### 1 Setting Up a Development Environment

Set up the tools you need to use JavaScript.

### 2 Where to Use JavaScript

Where does JavaScript go? Putting JavaScript tags in the HTML head, vs body, vs external files.

### 3 Syntax

What does JavaScript code look like?

### 4 Output

Learn several ways to output data to the screen with JavaScript.

## Basic JavaScript

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### 5 Statements and Comments

Understanding the instructions that are executed by the web browser, and learning how to comment code.

### 6 Variables

How to store data in variables in JavaScript.

### 7 Assignment Operators

How to assign values to a variable, and do basic math assignment.

8

## Arithmetic Operators

How to add, subtract, multiply, and divide with JavaScript. We'll also look at the modulus, incrementing and decrementing.

9

## Comparison and Logic Operators

How to compare two or more variables and test with logic (and, or, not).

10

## Strings, Numbers, and Boolean Data Types

Understanding the difference between strings and numbers; and understanding Boolean data types.

11

## Arrays

What are arrays, and how does JavaScript use them?

# Intermediate JavaScript

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12

## Objects

What are objects, and how does JavaScript use them?

13

## Functions

Implementing and invoking blocks of code with functions.

14

## If and If/Else and If/Else If Statements

Understanding conditional statements using If, If Else, and If Else If statements.

15

## Switch

Understanding conditional statements using switch.

16

## For Loops

Looping through things using For loops.

17

## While Loops

Looping through things using While loops.

18

## Intro to JSON

Introduction to JSON and why it is important.

# Using JavaScript For The Web

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19

## A Short HTML/CSS Primer

JavaScript works with HTML and CSS, let's do a quick refresher video on HTML and CSS.

20

## Intro to the HTML DOM

What is the DOM and why is it important?

21

## DOM Methods and Properties

What are the actions you can perform on HTML elements and what properties can you get and set?

22

## Dom Document Objects

Finding, changing, adding, and deleting elements.

23

## Finding Dom Elements

Finding elements by ID, by tag name, by class name, by CSS selectors, and by collections.

24

## Changing HTML Output, Content, and Attributes

How to change HTML output, content, and attributes with JavaScript.

25

## Changing CSS

How to change your CSS with JavaScript.

26

## Understanding Events

What is an event, and what can you do with it?

27

## Event Listeners

What are event listeners, and how to listen for event handlers.

28

## Navigating DOM Nodes

What is a DOM node and how do you navigate them.

29

## Creating New Nodes

Adding new nodes on the fly with JavaScript.

30

## The Node List

How to retrieve an array-like collection of nodes.

**31** **Form Validating**  
How to validate an HTML fill-out form with JavaScript.

**32** **Introduction to jQuery**  
What is jQuery, and why is it important?

## **AJAX**

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**33** **What Is AJAX**  
What is AJAX and what is it used for?

**34** **AJAX Requests - GET or POST?**  
What's the difference between GET and POST and when should you use them?

**35** **AJAX Response**  
How to handle an AJAX response.

## **Building a Math Flashcard App**

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**36** **Putting It All Together - What We'll Build**  
Introduction to building a simple math flashcard app with JavaScript and Ajax.

**37** **Create the Fill-Out Form**  
Let's create a fill-out form to enter our answers.

**38** **Checking for Numbers**  
Let's make sure the user entered a number!

**39** **Output the Result**  
How to output the answers to the screen.

**40** **Finishing Up**  
Create pages for Subtraction, Multiplication, and Division and finish the app.