

Coverage Based on Our Discussions, Exercises, and Lab Activities:

1. HTML Basics

- 2.1 Heading Elements
- 2.2 Paragraph Elements
- 2.3 Void Elements (e.g., ,
, <hr>)
- 2.4 Movie Ranking Project

2. HTML Advanced Concepts

- 3.0 List Elements (Ordered, Unordered)
- 3.1 Nesting and Indentation Best Practices
- 3.2 Anchor Elements (Hyperlinks)
- 3.3 Image Elements
- 3.4 Birthday Invite Project

3. File Organization and Portfolio Basics

- 4.0 Understanding File Paths (relative and absolute)
 - 4.1 Building Basic Webpages
 - 4.3 HTML Portfolio Project
-

4. CSS Basics

- 5.1 Adding CSS to HTML (inline, internal, external)
 - 5.3 CSS Selectors (element, class, ID selectors)
 - 5.4 Color Vocabulary Project
-

5. Design Fundamentals (Lecture Discussion)

- **Color Theory**
 - Primary, secondary, complementary colors
 - Warm vs. cool colors
 - Meaning of colors in branding and web design
- **Typography**
 - Font families (serif, sans-serif, monospace)
 - Importance of readability and font pairing

- CSS properties: font-family, font-size, font-weight, line-height
-

6. CSS Styling and Layouts

- 6.0 CSS Colors (hex codes, rgb, hsl)
 - 6.1 Font Properties (font-size, font-weight, line-height, text-align)
 - 6.3 CSS Box Model (content, padding, border, margin)
 - 6.4 Motivation Meme Project
-

7. CSS Intermediate Topics

- 7.0 CSS Cascade and Specificity
 - 7.1 Combining Selectors (grouping, chaining, descendant)
 - 7.2 CSS Positioning (static, relative, absolute)
 - 7.3 CSS Flag Project
-

8. Responsive Web Design Concepts

- 8.0 CSS Display Properties (block, inline, inline-block)
 - 8.1 CSS Float and Clear
 - 8.2 Introduction to Responsiveness
 - 8.3 Media Queries (basic mobile responsiveness)
 - 8.4 Web Design Agency Project
-

9. Flexbox and Grid Layouts

- 9.0 Flexbox Basics (flex container, flex items)
 - 9.1 Flex Direction (row, column)
 - 9.4 Flexbox Pricing Table Project
 - 10.0 Display Grid Basics
 - 10.1 Grid Sizing (columns, rows, auto placement)
 - 10.2 Grid Placement (grid lines, spanning)
 - 10.3 Mondrian Project
-

10. Framework Basics (Introduction Only)

- 11.0 Bootstrap Introduction (concept of using a framework)
 - 11.2 Bootstrap Components (cards, buttons, navbar basics)
-

11. JavaScript Fundamentals (Lecture and Coding Labs)

- **FizzBuzz Challenge**
 - Using for loops, if-else conditions
 - **99 Bottles of Beer Challenge**
 - Simplifying loops with **ternary operators**
 - **Ternary Operator**
 - Syntax: condition ? valueIfTrue : valueIfFalse
 - **Variables**
 - let and const usage (modern JS declaration)
 - **Template Literals**
 - Using backticks `Hello \${name}` for cleaner string insertion
 - **Basic Debugging**
 - How to use Chrome Developer Tools
 - Console logs, inspecting elements, checking errors
-

Reminders for Midterm:

- Focus on **HTML structure and clean coding practices**
- Know how to **style with CSS** and use **Selectors, Colors, Fonts** properly
- Understand **basic Responsive techniques**: Flexbox, Grid, Media Queries
- Practice **simple JavaScript logic** (loops, conditionals, outputting to console)
- Know the importance of **Color Theory** and **Typography** in frontend design
- Be familiar with **basic Bootstrap components** (no deep customization yet)

15 Practice Questions (Frontend)

HTML

1. **(Identification)**

What tag is used to create a hyperlink in HTML?
 2. **(Fill in the blank)**

Write the correct HTML tag to insert an image with the source cat.jpg and alternate text Cute Cat.
 3. **(Multiple Choice)**

Which of the following is a **void element** (self-closing)?

A) <div> B) <p> C) D) <h1>
-

CSS

4. **(Short Answer)**

What is the purpose of the **Box Model** in CSS?

5. **(Coding)**

Write a CSS rule to change the font color of all <h2> elements to blue and center-align the text.

6. **(True or False)**

In CSS, #header targets all elements with the class name header.

7. **(True or False)**

A class selector in CSS uses a . (dot) before the class name.

Color Theory & Typography

8. **(Multiple Choice)**

Which color scheme is made up of colors opposite each other on the color wheel?

A) Analogous B) Complementary C) Monochromatic D) Triadic

9. **(Short Answer)**

Give **one important reason** why typography matters in web design.

Responsive Design (Flexbox, Grid, Media Query)

10. **(Fill in the blank)**

Which CSS property is used to make a container a **flex container**?

11. **(Coding)**

Write the basic syntax of a **media query** that applies styles only if the screen width is 600px or less.

Bootstrap (Intro Basics)

12. **(Multiple Choice)**

In Bootstrap, which class will make a button blue?

A) btn-secondary B) btn-primary C) btn-success D) btn-danger

JavaScript Basics

13. **(Short Answer)**

What is the difference between let and const in JavaScript?

14. (Coding)

Write a JavaScript program that prompts the user for their **first name**, **middle name**, and **surname**. Then display their **3-letter initials** (in **UPPERCASE**) and greet them:

Example:

- Input: Cathy Molina Garcia
- Output: Hello **CMG**, welcome to ADWEBL Midterm Exam 2025!

15. (Coding)

Write a JavaScript function to check if a given year is a leap year or not, based on if-else logic:

Guide:

- If the year is divisible by 4,
 - then check if it is divisible by 100.
 - If it is divisible by 100, check if divisible by 400.
 - If divisible by 400, it **is** a leap year.
 - If not, **not** a leap year.
 - If not divisible by 100, it **is** a leap year.
- If not divisible by 4, it is **not** a leap year.