

Name: _____ Date: _____

Architect of the Internet: High-Stakes Coding Quest for 5th Graders

Prove your architectural prowess by analyzing source code, evaluating stylesheet logic, and predicting script behavior in this advanced assessment.

1. Imagine you are building a 'Theme Park Simulation' webpage. You want the background color of the ride descriptions to change to 'gold' only when a visitor's mouse moves over the text. Which technology and property combination is required for this logic?

- A. HTML using the <gold> tag
- B. CSS using the :hover pseudo-class
- C. JavaScript using the console.log command
- D. HTML using the <style> attribute only

2. A developer writes: . If the image file fails to load, the user will see the ____ text instead.

- A. Hidden
- B. Secondary
- C. Alternative
- D. Graphic

3. True or False: JavaScript is considered the 'bones' or 'skeleton' of a website because it creates the physical layout of the page.

- A. True
- B. False

4. Analyze this scenario: You have a button that should calculate a student's grade when clicked. However, the button looks perfect but does nothing when pressed. Which layer of development is likely missing or broken?

- A. The CSS layout
- B. The HTML tag structure
- C. The JavaScript logic
- D. The URL address

5. In the CSS rule 'p { font-size: 20px; }', the 'p' represents the ____, which tells the browser which HTML elements to style.

- A. Selector
- B. Declaration
- C. Variable
- D. Property

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6. True or False: If you delete all the CSS from a modern website, the text and links will still exist, but the layout and design will disappear.

- A. True
- B. False

7. You are designing a website about the Solar System. Which HTML tag is most appropriate for the top-level main title of the entire site to ensure correct document hierarchy?

- A. <p>
- B. <h10>
- C. <h6>
- D. <h1>

8. To create an ordered list of instructions for a science experiment, a developer would use the ____ tag.

- A.
- B.
- C.
- D. <list>

9. True or False: A website can send an alert message to a user even if no JavaScript has been written for that page.

- A. True
- B. False

10. Evaluation: A webpage has three buttons. You want only the middle button to be 'red'. What is the most efficient way to do this without changing the other two buttons?

- A. Change the global 'button' selector in CSS
- B. Give the middle button a specific 'class' and style that class in CSS
- C. Delete the other two buttons
- D. Use a JavaScript loop to check every button