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## Answer Key: Neon Blueprints: A 6th Grade Web Architect's Quiz

Students apply structural logic and styling principles to transform static wireframes into professional-grade digital storefronts and interactive portfolios.

**1. Imagine you are building a digital library. Which tag would you use to create a clickable connection to an external encyclopedia website?**

**Answer:** B) <a>

The <a> (anchor) tag is specifically designed to create hyperlinks that connect different web pages together.

**2. In the 'Box Model' of CSS, the 'padding' property creates space inside the element's border, while 'margin' creates space outside it.**

**Answer:** A) True

Padding adds internal breathing room for content, whereas margin pushes neighboring elements away horizontally or vertically.

**3. When a user clicks a 'Dark Mode' toggle on a weather app, which technology is primarily responsible for changing the background color instantly without reloading the page?**

**Answer:** C) JavaScript

JavaScript handles logic and real-time document manipulation, allowing the site to react to user input like clicks.

**4. You are designing a pastry shop's menu. To make the price of the 'Chocolate Croissant' bold and italics at the same time using CSS, which combination of properties is best?**

**Answer:** A) font-style and font-weight

Font-weight controls the boldness (e.g., bold), while font-style controls the slant (e.g., italic).

**5. In the HTML of a space exploration blog, if you want to display an image of Mars, you must use the \_\_\_\_\_ attribute to tell the browser the file's location.**

**Answer:** B) src

The 'src' (source) attribute points the browser to the exact file path or URL of the image you want to render.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**6. JavaScript is considered the 'skeleton' of a website because it provides the essential bone-like structure for the text and images.**

**Answer:** B) False

HTML is the skeleton (structure); JavaScript is more like the nervous system (interactivity and movement).

**7. Which of these is a semantic HTML element that helps search engines understand that a piece of text is the most important title on the entire page?**

**Answer:** C) <h1>

The <h1> tag indicates the top-level heading. Higher numbers like <h6> represent smaller, less significant sub-headings.

**8. To create a numbered list of instructions for a science experiment, which HTML tag should you use to wrap your list items?**

**Answer:** C) <ol>

<ol> stands for 'ordered list,' which automatically numbers each item sequentially.

**9. If you want every paragraph on your website to be centered, you should write the CSS rule: p { text-align: center; }**

**Answer:** A) True

This is a standard CSS selector that targets all <p> elements and applies the text-align property.

**10. A developer writes a script that prevents a user from submitting a form if their password is too short. This 'check' is an example of:**

**Answer:** B) Input Validation

Validation is a key use of JavaScript to ensure data is correct and secure before it is sent to a server.