Launch Web Apps 8th Grade Programming Challenge

Students debug DOM events, calculate CSS specificity, and construct asynchronous logic to solve complex architectural problems in modern front-end development.

---

1. An 8th-grade developer wants to select every odd-numbered <li> element within a <ul> to give them a striped background. Which CSS selector is most efficient for this task?

    A.   li:nth-child(2n)

    B.   li:nth-child(odd)

    C.   li .odd-item

    D.   ul > li:first-child

2. In the Document Object Model (DOM), the standard method used to update the text content of an HTML element via JavaScript is _____.

    A.   textContent

    B.   setVariable

    C.   changeText

    D.   style.content

3. A CSS rule with an ID selector (#header) will override a rule with a class selector (.main-title) applied to the same element due to higher specificity.

    A.   True

    B.   False

4. When creating a responsive grid for a portfolio, which CSS property allows an element to automatically wrap to the next line when there isn't enough horizontal space?

    A.   display: block;

    B.   position: relative;

    C.   flex-wrap: wrap;

    D.   overflow: hidden;

5. To ensure an image remains accessible to screen readers even if the file fails to load, developers must include the _____ attribute.

    A.   title

    B.   src

    C.   alt

    D.   caption

6. JavaScript is a compiled language that must be turned into an .exe file before it can run inside a Google Chrome or Firefox browser window.

    A.   True

    B. False

7. Which of these represents a JavaScript 'Event Listener' that triggers a function specifically when a user finishes typing in a text field?

    A. element.addEventListener('click', ...)

    B. element.addEventListener('keyup', ...)

    C. element.addEventListener('hover', ...)

    D. element.addEventListener('load', ...)

8. In the CSS Box Model, the space between the element's actual content and its border is known as _____.

    A. Margin

    B. Padding

    C. Outline

    D. Gutter

9. Which HTML element is the most semantically correct for grouping the primary navigation links of a website?

    A. <section>

    B. <div>

    C. <nav>

    D. <header>

10. Using 'const' to declare a variable in JavaScript means the value stored in that variable can never be changed or reassigned later in the code.

    A. True

    B. False