Name: _____   Date: _____

Answer Key: Nail These Pro Web Recipes: 3rd Grade Coding Challenge

Synthesize structural tags, style rules, and logic events to build a virtual space explorer dashboard in this advanced architectural mission.

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1. You are building a digital 'Pet Dragon' page. To make the background look like a dark cave, which CSS rule would you combine with an HTML body tag?

Answer: B) body { background-color: black; }

> To change the color of the entire page background, the CSS 'background-color' property must be applied to the 'body' tag.

2. If you want a JavaScript instruction to run only when a user clicks an image of a 'Treasure Chest', you should use the _____ event attribute.

Answer: C) onclick

> The 'onclick' event allows JavaScript to trigger a specific function exactly when a user interacts with an element by clicking it.

3. True or False: Using an <img> tag in HTML is enough to make a photo grow larger when a mouse moves over it without using CSS or JS.

Answer: B) False

> HTML only provides the structure (the image itself). To change size dynamically based on a mouse movement, you need CSS (using :hover) or JavaScript.

4. Imagine you are creating a 'Secret Agent' decoder. Which technology would you use to calculate the secret answer after the user types in a code?

Answer: C) JavaScript

> JavaScript is the 'brain' of the website; it handles math, logic, and data processing that HTML and CSS cannot do.

5. To create a bulleted list of 'Space Mission Goals', you would wrap your list items inside the _____ HTML tag pair.

Answer: A) and

The <ul> tag stands for 'unordered list,' which creates a bulleted list for grouping related items together.

6. True or False: If you write the CSS 'p { color: red; }', every single paragraph on your page will turn red.

Answer: A) True

CSS selectors targeted at a tag like 'p' apply to every instance of that tag throughout the entire HTML document.

7. You want to create a 'Night Mode' button. Which workflow is the most logical way to build this feature?

Answer: B) HTML creates the button, CSS makes it look dark, JS changes the color when clicked.

This follows the standard workflow: HTML for the element, CSS for the appearance, and JS for the interactive change.

8. To change the space between the border of a 'Submit' button and the text inside it, a developer uses the CSS _____ property.

Answer: B) padding

Padding creates internal space within an element, effectively making the 'cushion' between the content and the edge.

9. Which of these is the correct way to organize a website's 'Skeleton' so it's easy for others to read?

Answer: B) Use nesting, like putting <li> inside of <ul>.

Nesting (putting one tag inside another) shows how content is grouped and makes the structure logical and readable.

10. True or False: JavaScript can be used to show a pop-up message that says 'Happy Birthday!' when a user types their age into an HTML form.

Answer: A) True

JavaScript excels at taking 'User Input' from HTML forms and creating an immediate visual response like an alert.