IT Fundamentals Pro: Chapter 8.5 Web Development

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Grade	**11/12**
Unit of Study	**Information Technology Fundamentals**
Length of Unit	**139 Min**

Missouri Learning Standards	
N/A	

Unit 8.5: Learning Targets

I can:
• Identify and understand the purposes of HTML, CSS, and JavaScript in a web browser.
• Define frontend, backend, and full-stack development.
• Write HTML code to do the following:
o Use <head> and <body> tags to create a web page.
o Use tags to divide a web page into sections.
o Use <h> tags for web page headings.
o Use <p> tags for web page paragraphs.
o Use <a> tags for hyperlinks.
o Use <ul>, <ol>, and <li> tags to create bulleted and numbered lists.
o Use <img> tags to insert images into a web page.
o Add a caption to an image.
o Link to an external CSS style sheet.
• Write CSS style sheets to do the following:
o Resize an image to match the size of its wrapper.
o Center a line of text.
o Italicize text within a tag.
o Specify a particular font family for all text on a page.
o Change the font color of headings.
o Add padding to a page element.
o Add a drop-shadow to an element.
o Modify the background color of an element.
• Use JavaScript to add functionality to a button on a web page.

Intervention and Enrichment

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Assessments	
MLS (Learning Goal)	**Description or Location**
N/A	Ch. 8 Exam

Vocabulary			
Frontend Development	Backend Development	Hypertext Markup Language (HTML)	Cascading Style Sheet (CSS)
JavaScript			

Instructional Materials

Video/Demo
8.5.1 Web Programming Overview
8.5.2 HTML, CSS, and JavaScript
8.5.5 Writing Simple HTML
8.5.11 Writing Simple CSS

Lab/Activity
8.5.6 HTML: Define a Webpage's Head and Body
8.5.7 HTML: Add Headings to a Webpage
8.5.8 HTML: Create Ordered and Unordered Lists
8.5.9 HTML: Add Images and Hyperlinks
8.5.10 HTML: Link a CSS File to an HTML Page
8.5.12 CSS: Resize an Image
8.5.13 CSS: Change a Page's Fonts
8.5.14 CSS: Add a Drop Shadow to an Element
8.5.15 JavaScript: Make a Webpage Interactive

Additional Instructional Resources

8.5.3 HTML, CSS, and JavaScript Facts
8.5.4 HTML Tags

Reflections for Future Revisions