	Learning Objective	Principles of Web Design
STRAND 1	**Digital Citizenship: Students will understand the basic principles of copyright, AUP, and ethical behavior.**	
Standard 1	**Demonstrate knowledge of standard copyright rules.**	pp. 84-85, pp. 89-90
	Understand copyright for original creations.	pp. 84-85, pp. 89-90
	Understand the creative commons license.	p. 90
	Understand when to obtain permission for non-original work.	pp. 88-89
Standard 2	Identify the use and purpose of acceptable use policy (AUP).	p. 85
	Understand the AUP for your school.	
Standard 3	Understand ethical behavior as it relates to an AUP, Intellectual Property, Netiquette, Respecting Privacy, Anti-Spamming Laws, etc.	pp. 83-87, p. 92
STRAND 2	**Fundamentals of HTML5: Students will create a multi-page website using good coding practice (Such as those found in W3Schools.) (Suggested time proportion 40%)**	
Standard 1	Demonstrate knowledge required to develop an HTML document.	pp. 176-178
	Code the foundation for a webpage. Include the element tags DOCTYPE, html, head, title, and body.	pp. 190-192
	Structure the page using semantic and structural elements such as: header, nav, main, section, article, aside, footer, div, etc.	pp. 192-193
	Use meta tags for page documentation.	pp. 191-192
	Use appropriate comments.	pp. 179-187
Standard 2	Explain appropriate file structure and naming conventions.	pp. 179-187
	Use logical file structure to build websites.	pp. 179-187

	Incorporate appropriate naming conventions for website files.	pp. 179-181
	Use the DOCTYPE Declaration.	p. 190
	Develop pages using the DOCTYPE declaration.	p. 190

Code a website with appropriate HTML structure and according to

W3C standards that can be validated.

Demonstrate best practice by consistently using lowercase text for
all element names.   p. 182

Properly nest elements.   pp. 190-192

Use quotes on attribute values.   p. 188

Demonstrate the use of the following elements and attributes.

Create pages with the following block elements: html, head, body,
style, header, nav, main, section, footer, div.   190-192

Create pages with the following tags and attributes. (DOCTYPE, title,
h1, h2, h6, p, br, meta, etc.)   p. 183

Code a website with text formatting, links, images, lists, tables
(tabular data), etc.

Relative Links are relative to the directory of the website.
(images/photo.jpg)   p. 194

Absolute links are the exact location on the internet and contain a
protocol. (http, https, ftp)   p. 194

Code special characters such as: © " < >
& —.   p. 186

Demonstrate the use of HTML forms, buttons, text fields,
checkboxes, and radio buttons. (Form does not need to submit to an
actual database or email.)   p. 315-318

STRAND 3	**Cascading Style Sheets (CSS): Students will format websites using CSS. (Suggested time proportion 35%)**	
Standard 1	Apply CSS to your website.	pp. 200-216
	Apply CSS to an element using an inline style. (An inline style may be used to apply a unique style for a single element.)	p. 201
	Apply CSS to a webpage using an internal style. (Internal style rules may be used to uniquely style a single page.)	p. 202
	Apply CSS to a website using an external stylesheet. (Best Coding Practice - One file changes the entire website.)	p. 202
Standard 2	Apply essential syntax & CSS box model.	pp. 205-208
	Add style rule, declaration, selector, property value pair. Use correct css syntax:	p. 201,
Standard 3	**Students will format websites using CSS**	
	Modify background properties such as: color and image.	pp. 209-210
	Modify font properties such as: font-family, size, and color.	pp. 210-212
	Link to and use an online font. (i.e.: Google Fonts, Adobe Fonts, etc.)	
	Modify margin and padding size around elements.	p. 140, pp. 206 - 207
	Code id & class tags within HTML	
	Within CSS use id & class tags to modify a HTML elements.	
	Implement an id selector to modify a single element on the page.	
	Implement selectors pseudo class elements (i.e.: a:link, a:visited, a:active a:hover)	
	Use appropriate comments throughout your CSS	
Standard 4	Format page layout using CSS.	pp. 200 - 203

	Use width, height, or auto to adjust the size.	p. 207
	Use CSS Grid to layout the websites.	p. 246
STRAND 4	Site Planning: Students will plan, design, implement, and maintain website(s). (Suggested time proportion 10%)	
Standard 1	Analyze Project requirements.	p. 375
	Identify the purpose and audience for a website.	p. 375
	Identify basic principles of website usability, readability, and accessibility.	pp. 329-332
	Usability: Cross browser compatibility.	pp. 329-332
	Readability: contrast, size, font, and color.	p. 131, pp. 329-332
	Accessibility standards that address the needs of people with visual and motor impairments, such as using alt tags, strong instead of bold, etc.	pp. 150 - 152
	Identify and follow steps in the website planning and development process.	p. 375
Standard 2	Users are the focus of all design.	
	Plan a website by using sketches, wireframes, or site maps.	p. 134, p. 142, p. 145, p. 376
	Design elements are easy to access, understand, and use.	
	Keep the interface simple, create consistency, use common UI elements, placement in page layout, strategically use color and texture, use typography to help increase scannability, legibility and readability, and inform your users of location, actions, or errors.	
Standard 3	Code and design a minimum three-page website. (This is integrated into every Strand.)	p. 373

STRAND 5	The student will create and prepare images to integrate with website designs, using image editing software. (Suggested time proportion 5%)	
Standard 1	Open, edit, and save an image for effective use on your website.	
	Crop and resize various images.	p. 230, p. 227
	Optimize an image. (Resize and change resolution for optimal load time.)	p. 253
	Enhance an image.	p. 253
Standard 2	Incorporate a logo and header into webpage.	
	Incorporate images into a website.	p. 254
STRAND 6	Exploration & Preparation for Careers in Web Development: Students will explore careers in web development and prepare a portfolio of projects created.	
	Explore IT web development careers.	
Standard 1		pp. 6-16
	Identify job roles in the Information Technology (IT) industry as they apply to web development.	pp. 6-16
	Understand the responsibilities, tasks, and skills each job requires.	pp. 6-16