

<b>Web Design Curriculum – Grade level 9th through 12th</b>			
<b>Big Idea –</b> Use of HTML and CSS to create websites in accordance with HTTP.			
<b>Essential Question -</b> How is HTML and CSS used to create websites in accordance with HTTP?			
<b>Concepts</b>	<b>PA Core/Competencies</b>	<b>Resources</b>	<b>Assessments</b>
How the Internet Works.	<b>15.4.12.F.</b> Compare and contrast network environments, including the function of network devices and connectivity issues.	<ul style="list-style-type: none"> <li>• Website: <a href="http://Replit.com">Replit.com</a> - Online Development Environment.</li> <li>• Website: <a href="http://W3Schools.com">W3Schools.com</a> - Library of HTML tags and CSS properties.</li> <li>• Website: <a href="http://Fonts.Google.com">Fonts.Google.com</a> - Fonts and icons (Android Operating System) for website.</li> <li>• Website: <a href="http://Code.org">Code.org</a> - Series of videos on how the Internet works.</li> <li>• Website: <a href="http://Color.Adobe.com">Color.Adobe.com</a> - Website to help with color schemes and combinations.</li> <li>• Website: <a href="http://MyColor.Space">MyColor.Space</a> - Website to help with color schemes and combinations.</li> <li>• Website: <a href="http://Ascii.cl/htmlcodes.htm">Ascii.cl/htmlcodes.htm</a> - ASCII Code Tables - for characters</li> <li>• Website: <a href="http://Web.archive.org/">Web.archive.org/</a> -</li> </ul>	Self-grading quizzes on Oxfordk12.BlackBoard.com.

		<p>Wayback Machine to show students evolution of web pages.</p> <ul style="list-style-type: none"> <li>• Website: - Dole / Kemp 96’ website to show how tables were used to layout a website.</li> <li>• Video: <a href="https://www.youtube.com">YouTube.com</a> - Introduction to IP: Crash Course Intellectual Property #1.</li> <li>• Website: <a href="https://www.pexels.com">Pexels.com</a> - Free use images - used to prevent copyright infringement.</li> <li>• Website: <a href="https://www.unsplash.com">Unsplash.com</a> - Free use images - used to prevent copyright infringement.</li> <li>• Website: <a href="https://www.freeimages.com">Freeimages.com</a> - Free use images - used to prevent copyright infringement.</li> <li>• Website: <a href="https://www.pics4learning.com">Pics4Learning.com</a> - Free use images - used to prevent copyright infringement.</li> <li>• Website: <a href="https://www.photosforclass.com">PhotosForClass.com</a> - Free use images - used to prevent copyright infringement.</li> <li>• Website: <a href="https://www.rapidtables.com/convert/color/hex-to-rgb.html">Rapidtables.com/convert/color/hex-to-rgb.html</a> - Color conversion website (Converts Hexadecimal to RGB, etc...).</li> </ul>	
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<b>Vocabulary</b> HTTP (Hypertext Transfer Protocol); Router; DNS (Domain Name System) ; Server; Client.Bandwidth; Latency; Packet Switching, Web Browser, ISP (Internet Service Provider).			

<b>Web Design Curriculum – 9th through 12th</b>			
<b>Big Idea -</b> HTML (Hypertext Markup Language) is the main markup language used to display the structure of a web page.			
<b>Essential Question -</b> How is HTML (Hypertext Markup Language) used to display the structure of a web page?			
Concepts	PA Core/Competencies	Resources	Assessments
HTML is the main coding language used to control the display of a structure of a web page.	<p><b>15.4.12.A.</b>                  Apply the creative and productive use of emerging technologies for educational and personal success.</p> <p><b>15.4.12.G.</b>                  Create an advanced digital project using sophisticated design and appropriate software/applications.</p>	<ul style="list-style-type: none"> <li>Website: <a href="http://Replit.com">Replit.com</a> - Online Development Environment.</li> <li>Website: <a href="http://W3Schools.com">W3Schools.com</a> - Library of HTML tags and CSS properties.</li> <li>Website: <a href="http://Fonts.Google.com">Fonts.Google.com</a> - Fonts and icons (Android Operating System) for website.</li> <li>Website: <a href="http://Code.org">Code.org</a> - Series of videos on how the Internet works.</li> <li>Website: <a href="http://Color.Adobe.com">Color.Adobe.com</a> - Website to help with color schemes and combinations.</li> <li>Website: <a href="http://MyColor.Space">MyColor.Space</a></li> </ul>	Curriculum based student projects.  Student generated web pages.

		<p>- Website to help with color schemes and combinations.</p> <ul style="list-style-type: none"> <li>• Website: <a href="http://Ascii.cl/htmlcodes.htm">Ascii.cl/htmlcodes.htm</a> - ASCII Code Tables - for characters</li> <li>• Website: <a href="http://Web.archive.org/">Web.archive.org/</a> - Wayback Machine to show students evolution of web pages.</li> <li>• Website: - Dole / Kemp 96' website to show how tables were used to layout a website.</li> <li>• Video: <a href="http://YouTube.com">YouTube.com</a> - Introduction to IP: Crash Course Intellectual Property #1.</li> <li>• Website: <a href="http://Pexels.com">Pexels.com</a> - Free use images - used to prevent copyright infringement.</li> <li>• Website: <a href="http://Unsplash.com">Unsplash.com</a> - Free use images - used to prevent copyright infringement.</li> <li>• Website: <a href="http://Freeimages.com">Freeimages.com</a> - Free use images - used to prevent copyright infringement.</li> <li>• Website: <a href="http://Pics4Learning.com">Pics4Learning.com</a> - Free use images - used to prevent copyright infringement.</li> <li>• Website: <a href="http://PhotosForClass.com">PhotosForClass.com</a> -</li> </ul>	
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<p><b>Vocabulary</b> Syntax, HTML Document, HTML Elements, HTML Tags (Multiple tags used), HTML Attribute</p>			

<b>Web Design Curriculum – 9th through 12th</b>			
<b>Big Idea -</b> CSS (Cascading Style Sheets) are used to control the display of HTML (Hypertext Markup Language) within a HTML document.			
<b>Essential Question -</b> How is CSS (Cascading Style Sheets) used to control the display of HTML (Hypertext Markup Language) within a HTML document?			
<b>Concepts</b>	<b>PA Core/Competencies</b>	<b>Resources</b>	<b>Assessments</b>
<p>CSS (Cascading Style Sheets) are used in conjunction with HTML to give a web designer more control over the display of HTML in a web browser.</p>	<p><b>15.4.12.A.</b> Apply the creative and productive use of emerging technologies for educational and personal success.</p> <p><b>15.4.12.G.</b> Create an advanced digital project using sophisticated design and appropriate software/applications.</p>	<ul style="list-style-type: none"> <li>• Website: <a href="http://Replit.com">Replit.com</a> - Online Development Environment.</li> <li>• Website: <a href="http://W3Schools.com">W3Schools.com</a> - Library of HTML tags and CSS properties.</li> <li>• Website: <a href="http://Fonts.Google.com">Fonts.Google.com</a> - Fonts and icons (Android Operating System) for website.</li> <li>• Website: <a href="http://Code.org">Code.org</a> - Series of videos on how the Internet works.</li> <li>• Website: <a href="http://Color.Adobe.com">Color.Adobe.com</a> - Website to help with color schemes and combinations.</li> <li>• Website: <a href="http://MyColor.Space">MyColor.Space</a> - Website to help with color schemes and combinations.</li> <li>• Website: <a href="http://Ascii.cl/htmlcodes.htm">Ascii.cl/htmlcodes.htm</a> - ASCII Code Tables - for characters</li> <li>• Website: <a href="http://Web.archive.org/">Web.archive.org/</a> - Wayback Machine to show students evolution</li> </ul>	<p>Curriculum based student projects.</p> <p>Student generated web pages linked together to form a website.</p>

		<p>of web pages.</p> <ul style="list-style-type: none"> <li>• Website: - Dole / Kemp 96’ website to show how tables were used to layout a website.</li> <li>• Video: <a href="https://www.youtube.com">YouTube.com</a> - Introduction to IP: Crash Course Intellectual Property #1.</li> <li>• Website: <a href="https://www.pexels.com">Pexels.com</a> - Free use images - used to prevent copyright infringement.</li> <li>• Website: <a href="https://unsplash.com">Unsplash.com</a> - Free use images - used to prevent copyright infringement.</li> <li>• Website: <a href="https://www.freeimages.com">Freeimages.com</a> - Free use images - used to prevent copyright infringement.</li> <li>• Website: <a href="https://www.pics4learning.com">Pics4Learning.com</a> - Free use images - used to prevent copyright infringement.</li> <li>• Website: <a href="https://www.photosforclass.com">PhotosForClass.com</a> - Free use images - used to prevent copyright infringement.</li> <li>• Website: <a href="https://www.rapidtables.com/convert/color/hex-to-rgb.html">Rapidtables.com/convert/color/hex-to-rgb.html</a> - Color conversion website (Converts Hexadecimal to RGB, etc...).</li> <li>• Website: <a href="https://www.edu.gcfglobal.org">EDU.GCFGlobal.org</a> -</li> </ul>	
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<p><b>Vocabulary</b> Stylesheet; selector, id, class, CSS rule, CSS rule set, property, value; pseudo-class.</p>			