NEW MILFORD PUBLIC SCHOOLS New Milford, Connecticut



Introduction to Web Design

July 2015

BOE Approved June 2016

New Milford Board of Education

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> Authors of Course Guide Daryl Daniels

District Mission Statement:

"The mission of the New Milford Public Schools, a collaborative partnership of students, educators, family and community, is to prepare each and every student to compete and excel in an ever-changing world, embrace challenges with vigor, respect and appreciate the worth of every human being, and contribute to society by providing effective instruction and dynamic curriculum, offering a wide range of valuable experiences, and inspiring students to pursue their dreams and aspirations."

Introduction to Web Design

This elective course will introduce students to the basics of website creation through writing and interpreting the mark-up language HTML5 and the styling language CSS3 enabling students to create and maintain websites. Students will construct websites that include text, graphics, audio, and video while using appropriate presentation elements. Projects will be completed to practice skills regarding appropriate use of code, design, use of color, structure and styling of a webpage. Students will use and learn about text editors, WYSIWYG HTML editors and web-based Integrated Development Environments such as c9.io.

Pacing Guide

Unit #	Title	Weeks	Pages.
1	Precoding & Website Planning Text editors vs WYSIWYG Editors Sketches, Diagrams, & Storyboards Files and Folders Colors (contrasting and complementing) Commenting	1-2 Weeks	7-9
2	Introduction to HTML & Basic Elements File extensions Angle Brackets & Tags Essential Elements Attributes & Values Nesting	2-3 Weeks	10-13
3	HTML & Site Content Block vs Inline elements Inserting text Tables & Page Organization Hyperlinks & Lists Images - Web Graphics & Copyright Division Elements HTML5 – Audio & Video	5-6 Weeks	14-17
4	Introduction to CSS Inline vs Internal & External Syntax: Properties & Values	1-2 Weeks	18-20
5	CSS & Styling Elements Types of Selectors CSS Box Model Page Layout Position & Float	3-4 Weeks	21-23
6	Completing and Presenting Project & Portfolio	2-3 Weeks	24-26

Key For Common Core State Standards

W = Writing Standards

- WHST = Writing: History/S.S., Science, & Technical Subjects
- RST = Reading Standards for Literacy, Science, and Technology Subjects
- SL = Speaking and Listening Standards

RI = Reading Standards for Informational Text

RH = Reading: History/Social Studies

New Milford Public Schools

Committee Member(s):	Course/Subject:	
Daryl Daniels	Introduction to Web Design - Practical Arts	
Unit 1: Pre-coding & Website Planning	Grade Level: 9-12	
	# of Weeks: 1-2	
Identify Des	ired Results	
Common Co	ore Standards	
 WHST.9-10.6 – Use technology, including the Internet, to produce, publish, and update individual or shared writing products, taking advantage of technology's capacity to link to other information and to display information flexibly and dynamically. W.11-12.6: Use technology, including the Internet to produce, publish, and update individual or shared writing products in response to ongoing feedback including new arguments or information. W.11-12.10: Write routinely over extended time frames (times for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of tasks, purposes, and audiences SL.11-12.1: Initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grades 11-12 topics, texts, and issues, building on others' ideas and expressing their own clearly and persuasively. RST.11-12.4: Determine the meaning of symbols, key terms, and other domain specific words and phrases as they are used in a specific scientific or technical 		
Enduring Understandings Generalizations of desired understanding via essential questions	Essential Questions Inquiry used to explore generalizations	
 HTML5 is the standard mark-up language used insert the content of a webpage. CSS3 is the styling language used to format webpages. WYSIWYG HTML editors and Text editors can be used to create websites. Identification of a websites target audience is critical for the development of an effective website. 	 What kind of coding is used to create a website? Can software be used to create a website? What is the process necessary to create a professional appearing, usable website? What is and how can one identify the target audience? 	
Expected Performances What students should know and be able to de		
Students will know the following:		

HTML5 and CSS3 are used for when creating a website. ø HTML provides the content to a page while CSS provides the style or format. 0 The process of creating a websites involves several steps beginning with a solid understanding of the reason for the website and its necessary content. A root folder is used to contain all the folders & files used in a website. 6 Color is used to provide a theme and highlight important content. ۲ Commenting in both an HTML and CSS file is very important and why. Students will be able to do the following: Differentiate between the use of HTML and CSS code. 6 Create a root folder and properly organize the folders and files within the root ø folder. Properly comment within HTML and CSS code and communicate the why the 8 process is important to a professionally developed website. Create a sketch of a webpage using necessary values. ۲ **Character Attributes** Integrity 8 Cooperation • Courage Technology Competencies Manage files and folders ۲ Identify and apply appropriate design concepts and create web pages 0 Identify client and target audience needs 0 Identify basic network connectivity concepts ٩ Students use technology tools to enhance learning, increase productivity and ⊜ promote creativity Students practice responsible use of technology systems, information and ø software Students create original works as a means of personal or group expression. Students apply existing knowledge to generate new ideas, products, and processes **Develop Teaching and Learning Plan Teaching Strategies:** Learning Activities: Teacher opens discussion Students will research and identify regarding elements necessary for a what they believe to be important to in professional appearing website. a website. Teacher models the creation of a Students will create a sketch of a 8 root folder and explains why all files webpage using specific criteria. must be nested within. Students will identify complementing 1 Teacher identifies and models with and contrasting colors using a web the use of the smartboard. based color wheel. necessary components of a Students will collaborate and produce 0 properly completed web page rational for the use of commenting sketch. when creating a website. Teacher opens discussion and Students will produce a root folder with provides instruction of the use of appropriate nested elements including

 commenting within code and reasons for its importance. Teacher introduces GUI of basic text editor's vs WYSIWYG HTML editors. Teacher facilitates a discussion with the use of viable resources about complimenting and contrasting colors and why color is important to a website. Teacher will demonstrate and facilitate creating and sharing google docs. 	 a homepage saved as an HTML file. Students will share in groups: Important attributes of a website, popular HTML editors, and popular web based HTML editors. Students will create and share Google docs (notes/journal). Students begin culminating project by choosing and researching their topic Students create a beginning sketch of their culminating project home page. 	
Assess	sments	
Performance Task(s) Other Evidence Authentic application to evaluate student achievement of desired results designed according to GRASPS Application that is functional in a classroom context to evaluate student achievement of desired results		
	 Students will produce a sketch and provide evidence to their ability to comment in HTML and CSS code Students will demonstrate an ability to open a text editor insert HTML and CSS commenting and save files with .html, .css, and graphic file extensions to appropriate folders Students will complete formative assessments until they reach 80% proficiency Students will demonstrate knowledge of technology terms presented Observation of student participation in groups and class discussions Student responses in journal entries Reflective writing 	
Suggested	Resources	
 Duckett, Jon. HTML & CSS: Design and Build Websites. Indianapolis, IN: Wiley, 2011. Print. "HTML Color Picker." ColorPicker.com. N.p., n.d. Web. 09 July 2015. "HTML." W3Schools Online Web Tutorials. N.p., n.d. Web. 09 July 2015. "Learn to Design and Develop Websites." Web Development Tutorials. N.p., n.d. Web. 09 July 2015. "W3C." World Wide Web Consortium (). N.p., n.d. Web. 09 July 2015. "Web Design & Development I." Web Design & Development I. N.p., n.d. Web. 09 July 2015. 		

Committee Member(s):

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Course/Subject:

 Identify Designation RST.9-10.3 – Follow precisely a complexity experiments, taking measurements, or special cases or exceptions defined in W.11-12.6: Use technology, including update individual or shared writing provincluding new arguments or information W.11-12.10: Write routinely over extended to the second se	ired Result-s re Standards plex multistep procedure when carrying out or performing technical tasks, attending to in a text. If the Internet to produce, publish, and oducts in response to ongoing feedback on. Inded time frames (times for research, me frames (a single sitting or a day or two)
 Common Collection RST.9-10.3 – Follow precisely a complexperiments, taking measurements, or special cases or exceptions defined in W.11-12.6: Use technology, including update individual or shared writing provincluding new arguments or information W.11-12.10: Write routinely over extended and rowinical and rowinical and rowinical and shares to the start of the start o	re Standards plex multistep procedure when carrying out or performing technical tasks, attending to n a text. I the Internet to produce, publish, and oducts in response to ongoing feedback on. nded time frames (times for research, me frames (a single sitting or a day or two)
 SL.11-12.1: Initiate and participate effection of the section of the	of symbols, key terms, and other domain
 context relevant to grades 11-12 texts a Enduring Understandings Generalizations of desired understanding via essential questions (Students will understand that) File extensions are necessary and indicate the type of software necessary to use the file. The essential elements for a webpage are "html", "head", and "body". Data found in the "body" element will be visible to users while data found in the "head" element will not. Nesting elements is essential and means that elements. Most elements have a start and end tag while some have only a start tag and they are considered "empty elements". Attributes add additional information to elements. 	 Essential Questions Inquiry used to explore generalizations What websites are good for learning how to create websites? What does HTML mean and what part of a website is it responsible for? What are the parts of HTML code and how do they work together? What is a file extension and what types of files will we be using in our websites? What HTML elements are necessary and how can we determine the version of HTML being used?
Expected Pe	rformances
What students should k	now and be able to do

The DOCTYPE informs the web browser which version of HTML is being used and the DOCTYPE for HTML5 is "IDOCTYPE html". HTML code is made up of elements which contain start tags (angle brackets, element names, attributes and values), content, and end tags. An element may include nested elements. ۲ The "title" element is nested in the "head" element and provides text in the browsers tab. A web browser is used to view webpages. Students will be able to do the following: ۲ Demonstrate an ability to create a webpage with an appropriate DOCTYPE and the three essential elements. Create, save, and open a website through a basic web editor. Provide the "body" element with an attribute and value that will add information to ۲ the data element. Insert content to a webpage using elements that text. **Character Attributes** Integrity ۲ Perseverance 6 Cooperation 69 **Technology Competencies** Manage files and folders ۲ Evaluate and select the appropriate applications to productively complete tasks 0 Identify and apply appropriate design concepts and create web pages œ Identify basic network connectivity concepts 0 Students evaluate the accuracy and quality of their online work ₿ Students use technology tools to enhance learning, increase productivity and promote creativity Students practice responsible use of technology systems, information and software Develop a mastery of technology tools required to enhance academic, business and personal performance for success Students use critical thinking skills to plan and conduct research, manage 0 projects, solve problems, and make informed decisions using appropriate digital tools and resources Students create original works as a means of personal or group expression. ۲ Students apply existing knowledge to generate new ideas, products, and processes Students demonstrate a sound understanding of technology concepts, systems, and operations **Develop Teaching and Learning Plan** Teaching Strategies: Learning Activities: Teacher demonstrates and Students insert the appropriate 8 discusses the necessary elements DOCTYPE, essential elements, "title" in an html file. and text elements into a file, save the Teacher will present the several file as HTML and open in a browser

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• "HTML Color Picker." ColorPicker.com. N.p., n.d. Web. 09 July 2015.

• "HTML." W3Schools Online Web Tutorials. N.p., n.d. Web. 09 July 2015.

- "Learn to Design and Develop Websites." Web Development Tutorials. N.p., n.d., Web. 09 July 2015.
- "W3C." World Wide Web Consortium (). N.p., n.d. Web. 09 July 2015.
- "Web Design & Development I." Web Design & Development I. N.p., n.d. Web. 09 July 2015.

Committee Member(s): Daryl Daniels Unit 3: HTML & Site Content	Course/Subject: Introduction to Web Design - Practical Arts Grade Level: 9-12 # of Weeks: 5-6	
Identify Des	ired Results	
Common Co	ore Standards	
 RST.9-10.3 – Follow precisely a comexperiments, taking measurements, special cases or exceptions defined in WHST 9-10.6 – Use technology inclusion 	plex multistep procedure when carrying out or performing technical tasks, attending to in a text.	
update individual or shared writing pr capacity to link to other information a dynamically.	roducts, taking advantage of technology's nd to display information flexibly and	
 W.11-12.6: Use technology, including update individual or shared writing pr including new arguments or information 	g the Internet to produce, publish, and oducts in response to ongoing feedback ion.	
 W.11-12.10: Write routinely over extended time frames (times for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of tasks, purposes, and audiences 		
 SL.11-12.5: Make strategic use of digital media (e.g., textual, graphical, audio, visual, and interactive elements) in presentations to enhance understanding of findings, reasoning, and evidence and to add interest. 		
 SL.11-12.1: Initiate and participate effective (one-on-one, in groups, and teacher-lectopics, texts, and issues, building on of and persuasively. 	ectively in a range of collaborative discussions ed) with diverse partners on grades 11-12 thers' ideas and expressing their own clearly	
 RST.11-12.7: Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., quantitative data, video, multimedia) in order to address a guestion or solve a problem. 		
 RST.11-12.4: Determine the meaning specific words and phrases as they are context relevant to grades 11-12 texts 	of symbols, key terms, and other domain e used in a specific scientific or technical and topics.	
 WHST.11-12.2: Write informative/explanation in the interval of the including formatting (e.g., headings), g when useful to aiding comprehension. 	anatory texts, including the narration of (experiments, or technical processes. a. x ideas, concepts, and information so that ich precedes it to create a unified whole; raphics (e.g., figures, tables), and multimedia	
Enduring Understandings Generalizations of desired understanding via essential questions (Students will understand that)	Essential Questions Inquiry used to explore generalizations	
 Most images we find on the INTERNET are copyrighted. 	 How can a picture be inserted into a webpage? 	
 Attributes can be used to format how data (images/text) is viewed. 	 What other types of media can we insert into a webpage? 	
 Tables are used to organize data in a webpage. 	 Can HTML change colors and sizes on the webpage? 	

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9 ()	Division elements are block element used to hold other elements for better page organization and styling. HTML5 has new elements to insert video and audio. HTML5 has several semantic elements that provide meaning to the browser.	 How can a hyperlink be inserted into a webpage? How can the data in the webpage be organized? Is there a way to group data (elements) to move it together? What does semantics mean and what does it have to do with HTML? 	
n di je	Expected P What students should	erformances know and be able to do	
Stude	nts will know the following:		
-	Block level elements contain space fielements	rom the left to the right margin unlike inline	
۵	Text can be inserted through several	types of elements	
0	Division elements are containers for	other elements	
۵	Images play an important role in the	design of a website	
0	Hyperlinks can be formatted using ps	seudo-classes	
<u>.</u>			
Stude	nts will be able to do the following:	Jonant	
0	Nest and elements within a division e	element	
-	 Insert and use a table to layout the webpage's data Link to other names, the INTEDNET, improve, and files within the webpate. 		
	Link to other pages, the INTERNET, images, and files within the website Insert images using relative and absolute references		
	 Itself indges using relative and absolute references Use attributes/values to change the look of elements 		
6)	 Insert ordered and unordered list 		
ø	Create a graphic that shows all parts	to an HTML element	
	Character	Attributes	
6	Cooperation		
۲	Perseverance		
6	Honesty		
6	Responsibility		
100	Manago filos and foldors	y Competencies	
	Evaluate and select the appropriate a	applications to productively complete tasks	
ø	 Identify and select appropriate delivery methods and tools for digital media projects 		
\$	Identify and apply appropriate design	concepts and create web pages	
۲	Identify client and target audience needs		
	Identify basic network connectivity concepts		
8	Students evaluate the accuracy and quality of their online work		
۲	 Students use technology tools to enhance learning, increase productivity and promote creativity 		
0	Students practice responsible use of software	technology systems, information and	
۵	Develop a mastery of technology too and personal performance for succes	ls required to enhance academic, business	

 Goal: Use a text editor to insert the necessary HTML code to present material specified by client. Role: Entrepreneurial partner in a Web Design business Audience: Client (Owner of small business in) Situation: Client X hired you to create a website for their business. You and your partner are using the notes you have gathered in your initial meeting to implement the HTML necessary to show the content your client would like on the homepage of their website. Product or Performance: A root folder containing an "images" folder and a file comprised of the necessary HTML to present clients material and be used as the homepage of the website. 	 Students will complete a summative assessment regarding pre-coding activities and the use of HTML including attributes and their values Students will complete formative assessments until they reach 80% proficiency Observations made in collaborative groups and class discussions Student responses in journal entries Completion of assignments Pre-assessment results and student evaluation of previous knowledge Reflective writing Responses to review questions with and without resources Completion of worksheets using objective questions Students will demonstrate knowledge of technology terms presented 	
elements necessary to properly host client's material (student rubric).		
Suggested	Resources	
 Duckett, Jon. HTML & CSS: Design and Build Websites. Indianapolis, IN: Wiley, 2011. Print. "HTML Color Picker." ColorPicker.com. N.p., n.d. Web. 09 July 2015. "HTML." W3Schools Online Web Tutorials. N.p., n.d. Web. 09 July 2015. "Learn to Design and Develop Websites." Web Development Tutorials. N.p., n.d. Web. 09 July 2015. "W3C." World Wide Web Consortium (). N.p., n.d. Web. 09 July 2015. "Web Design & Development I." Web Design & Development I. N.p., n.d. Web. 09 		

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Committee Member(s):	Course/Subject:	
Unit 4: Introduction to CSS Introduction to Web Design - Practical Grade Level: 9-12		
	# of Weeks: 1-2	
Identify Des	ired Results	
Common Co	re Standards	
 RST.9-10.3 – Follow precisely a compexperiments, taking measurements, or special cases or exceptions defined in W.11-12.10: Write routinely over extereflection, and revision) and shorter to for a range of tasks, purposes, and au SL.11-12.1: Initiate and participate efference (one-on-one, in groups, and teacher-lead topics, texts, and issues, building on ot 	plex multistep procedure when carrying out or performing technical tasks, attending to n a text. ended time frames (times for research, ime frames (a single sitting or a day or two) udiences ectively in a range of collaborative discussions d) with diverse partners on grades 11-12 hers' ideas and expressing their own clearly	
 and persuasively. RST.11-12.4: Determine the meaning of specific words and phrases as they are context relevant to grades 11-12 texts and specific words and phrases as they are context relevant to grades 11-12 texts and specific words are context relevant to grades 11-12 texts and specific words are context relevant to grades 11-12 texts and specific words are context relevant to grades 11-12 texts and specific words are context relevant to grades 11-12 texts and specific words are context relevant to grades 11-12 texts and specific words are context relevant to grades 11-12 texts and specific words are context relevant to grades 11-12 texts and specific words are context relevant to grades 11-12 texts and specific words are context relevant to grades 11-12 texts and specific words are context relevant to grades 11-12 texts are context relevant text relevant texts are context relevant text relevant texts are context relevant te	of symbols, key terms, and other domain used in a specific scientific or technical and topics.	
Enduring Understandings Generalizations of desired understanding via essential questions (Students will understand that)	Essential Questions Inquiry used to explore generalizations	
 CSS3 is the preferred method for styling and formatting an HTML webpage. CSS can be implemented in three ways (inline, internal, and external). Internal and external CSS syntax includes selectors and style declarations. 	 How are websites formatted or styled to include color and achieve desired layout? How is CSS implemented into HTML? 	
Expected Pe What students should be Students will know the following:	erformances know and be able to do	
 How and where to insert inline, intern Inline CSS takes precedent over inter 	al, and external CSS mal and external	
 Students will be able to do the following: Insert inline, internal, and external CS Create a graphic showing the proper Insert the appropriate element, attributo provide internal CSS 	SS appropriately syntax for external CSS ite, and value in the "head" element in orde	
Character	Attributes	
 Cooperation Perseverance Responsibility 		
▼ r∖⊂sµuiisiµiiity Technology	/ Competencies	

 Identify and apply appropriate design concepts and create web pages Students evaluate the accuracy and quality of their online work Students use technology tools to enhance learning, increase productivity and promote creativity Students practice responsible use of technology systems, information and software Develop a mastery of technology tools required to enhance academic, business and personal performance for success Students use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources Students create original works as a means of personal or group expression. Students apply existing knowledge to generate new ideas, products, and processes Students demonstrate a sound understanding of technology concepts, systems, and operations 		
Develop Teaching	and Learning Plan	
 Teaching Strategies: Teacher demonstrates and discusses the necessary elements to insert internal CSS Teacher will presents the three methods for inserting CSS Teacher leads discussion regarding when and why to use each of the three CSS methods Teacher demonstrates the three techniques to insert CSS Teacher provides graphics demonstrating the correct syntax for internal CSS Teacher poses questions through his/her website for students to discuss and respond to in their journals Teacher will lead discussions (question & answers) regarding previously covered material 	 Learning Activities: Students define and apply the parts of a CSS selector and style declaration Students interpret and discuss questions in small groups Students recreate graphics representing CSS internal syntax and the element necessary to implement Students watch or read tutorials and respond to questions Students create questions about completed tutorials Students use interactive MS Word docs to move CSS parts into their correct position Students create an HTML file to show the different methods of inserting CSS Students watch/read tutorials and respond to and generate questions 	
Assess	sments	
Performance Task(s) Authentic application to evaluate student achievement of desired results designed according to GRASPS (one per marking period)	Other Evidence Application that is functional in a classroom context to evaluate student achievement of desired results	
ι) Ι	 Students will complete formative assessments until they reach 80% proficiency Observations made in collaborative 	

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8 KG (MK 1996 KK 1997 KK 1977	 groups and class discussions Completion of a full webpage implementing specific criteria with a partner Student responses in journal entries Completion of assignments Pre-assessment results and student evaluation of previous knowledge Reflective writing Responses to review questions with and without resources Completion of worksheets using objective questions Students will demonstrate knowledge 	
	of technology terms presented	
Suggested	Resources	
Duckett, Jon. HTML & CSS: Design and Build Websites. Indianapolis, IN: Wiley, 2011. Print.		
"HTML Color Picker." ColorPicker.com. N.p., n.d. Web. 09 July 2015.		
 "HTML." W3Schools Online Web Tutorial 	"HTML." W3Schools Online Web Tutorials. N.p., n.d. Web. 09 July 2015.	
 "Learn to Design and Develop Websites." 	"Learn to Design and Develop Websites." Web Development Tutorials. N.p., n.d.	
Web. 09 July 2015.		
"W3C." World Wide Web Consortium (). N.p., n.d. Web. 09 July 2015.		
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 "Web Design & Development I." Web Design & Development I. N.p., n.d. Web. 09 July 2015.

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Committee Member(s):	Course/Subject:	
Daryl Daniels	Introduction to Web Design - Practical Arts	
Unit 5: CSS & Styling Elements	Grade Level: 9-12	
	# of Weeks: 3-4	
Identify Desired Results		
Common Co	ore Standards	
 RST.9-10.3 – Follow precisely a com 	plex multistep procedure when carrying out	
experiments taking measurements or performing technical tasks attending to		
special cases or exceptions defined i	n a text.	
• WHST 9-10.6 – Use technology including the Internet to produce publish and		
undate individual or shared writing products, taking advantage of technology's		
capacity to link to other information a	nd to display information flexibly and	
dynamically	na to display mornation lickibly and	
• W 11 12 6: Use technology including	the Internet to produce publich, and	
 W. 11-12.0: Use technology, including the internet to produce, publish, and undeterindividual or obsred writing products in reasonable to engoing feedback. 		
update individual of shared writing products in response to ongoing feedback		
Including new arguments or information.		
• VV.11-12.10: Write routinely over extended time trames (times for research,		
reflection, and revision) and shorter time frames (a single sitting or a day or two)		
for a range of tasks, purposes, and a		
 SL.11-12.5: Make strategic use of digit 	al media (e.g., textual, graphical, audio,	
Visual, and interactive elements) in pre	sentations to enhance understanding of	
findings, reasoning, and evidence and	to add interest.	
 SL.11-12.1: Initiate and participate effective (and an analise structure, and tagabar la 	ectively in a range of collaborative discussions	
topics, toyte, and issues, building on of	d) with diverse partners on grades 11-12	
and norsussivoly	mers lueas and expressing men own cleany	
Enduring Understandings	Essential Questions	
Generalizations of desired understanding via	Inquiry used to explore generalizations	
essential questions	[2] 2] 14월 2월 2월 20일 - 12일 2월 2월 2월 20일	
(Students will understand that)	. What kind of colorians can be used	
 BIOCK level elements take into 	 What kind of selectors can be used in CCC2 	
consideration the box model which		
is made up of margin, border, and	 How can elements be moved to 	
	different parts of the webpage?	
 The most common selectors are 	 How are borders and colors inserted 	
element, class, id, and the universal	into a webpage?	
selector.		
 The position property allows 		
elements to be moved to specific		
locations on a webpage.		
 Pseudo-classes change the 		
appearance of hyperlinks		
depending on their "state".		
Expected Po What students should	erformances	
Students will know the following:		
There are many different properties in	n CSS	

 The parts of the box model how it effects the size of elements The four main values of the position property and the meaning of each Nesting elements in a container can assist with a webpage's layout 			
 Students will be able to do the following: Use the position property to create a Demonstrate how nesting elements Use the "id" selector effectively Determine the correct selector for st Determine how the bey model effect 	a professional appearing layout in containers assists with the page's layout yling elements		
Cooperation Perseverance	er Attributes		
Responsibility Technology	au Compotonoiog		
 Manage files and folders Evaluate and select the appropriate applications to productively complete tasks Identify and apply appropriate design concepts and create web pages Students use technology tools to enhance learning, increase productivity and promote creativity Students practice responsible use of technology systems, information and software Develop a mastery of technology tools required to enhance academic, business and personal performance for success Students use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources Students create original works as a means of personal or group expression. Students apply existing knowledge to generate new ideas, products, and processes Students demonstrate a sound understanding of technology concepts, systems, 			
Develop Teaching	Develop Teaching and Learning Plan		
 Teaching Strategies: Teacher demonstrates and discusses the parts of the box model 	 Learning Activities: Students will group selectors to format a table Students create an HTML file to show 		
 Teacher presents and discusses a variety of selectors Teacher demonstrates the use of pseudo classes and explains 	 proper use of the four selectors discussed Students create an HTML file to show to style hyperlink states using pseudo- 		
 hyperlink "states" Teacher provides graphics demonstrating effects of the box model on element size Teacher poses questions through 	 classes Students style an image using the box method Students watch/read tutorials and respond to and generate questions 		

 his/her website for students to discuss and respond to in their journals Teacher will lead discussions (question & answers) regarding previously covered material 	 Students interpret and discuss questions in small groups Students create models to highlight the different selectors Students work with partners to style the HTML file they created with a partner in the third unit
ASSESS	
Authentic application to evaluate student achievement of desired results designed according to GRASPS (one per marking period)	Application that is functional in a classroom context to evaluate student achievement of desired results
	 Students complete summative assessment regarding the implementation and syntax of CSS Students will complete formative assessments until they reach 80% proficiency Observations made in collaborative groups and class discussions Completion of styled webpage implementing specific CSS criteria with a partner Student responses in journal entries Completion of assignments Pre-assessment results and student evaluation of previous knowledge Reflective writing Responses to review questions with and without resources Completion of worksheets using objective questions Students will demonstrate knowledge of technology terms presented
Suggested Resources	
 Duckett, Jon. HTML & CSS: Design and Build Websites. Indianapolis, IN: Wiley, 2011. Print. 	
"HTML Color Picker." ColorPicker.com. N	I.p., n.d. Web. 09 July 2015.
"HTML." W3Schools Online Web Tutorial "I earn to Design and Develop Websites	ls. N.p., n.d. Web. 09 July 2015.
Web. 09 July 2015.	web Development rutonais. w.p., n.u.
 "W3C." World Wide Web Consortium (). N.p., n.d. Web. 09 July 2015. "Web Design & Development I." Web Design & Development I. N.p., n.d. Web. 09 July 2015. 	

Committee Member(s):Course/Subject:Daryl DanielsIntroduction to Web Design - Practical Arts

Identify Des	ired Results
Common Co	re Standards
 WHST.9-10.6 – Use technology, incluupdate individual or shared writing proceedings of the shared writing proceeding to link to other information and dynamically. 	iding the Internet, to produce, publish, and oducts, taking advantage of technology's nd to display information flexibly and
 W.11-12.6: Use technology, including update individual or shared writing pro- including new arguments or information 	the Internet to produce, publish, and oducts in response to ongoing feedback
 W.11-12.10: Write routinely over extereflection, and revision) and shorter ti for a range of tasks, purposes, and an 	nded time frames (times for research, me frames (a single sitting or a day or two) udiences
 SL.11-12.5: Make strategic use of digital visual, and interactive elements) in pre- findings, reasoning, and evidence and 	al media (e.g., textual, graphical, audio, sentations to enhance understanding of to add interest.
 SL.11-12.1: Initiate and participate effe (one-on-one, in groups, and teacher-lead topics, texts, and issues, building on other and persuasively. 	ctively in a range of collaborative discussions d) with diverse partners on grades 11-12 hers' ideas and expressing their own clearly
 RST.11-12.7: Integrate and evaluate m diverse formats and media (e.g., quanti address a question or solve a problem. 	ultiple sources of information presented in itative data, video, multimedia) in order to
 WHST.11-12.2: Write informative/explain historical events, scientific procedures/ Introduce a topic and organize complex each new elopement builds on that whi including formatting (e.g., headings), gr when useful to aiding comprehension 	natory texts, including the narration of experiments, or technical processes. a. c ideas, concepts, and information so that ich precedes it to create a unified whole; raphics (e.g., figures, tables), and multimedia
Enduring Understandings Generalizations of desired understanding via essential questions (Students will understand that)	Essential Questions Inquiry used to explore generalizations
 When referencing an element outside of a website an absolute reference must be used. When referencing an element within a website a relative reference is used. The INTERNET can be extremely helpful in assisting education. 	 How can websites be linked together? What CSS properties beyond those covered are useful and help make a website appear professional? Which online resources are most convenient to assist with problem solving HTML and CSS questions?
Expected Pe What students should I	errormances know and be able to do
 tudents will know the following: How to insert each of the HTML elem 	ents found in the rubric for the culmination
 How to use and reference class and i 	d selectors

• How to use W3schools.com and other resources to problem solve.

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Students will be able to do the following:

 Demonstrate successful use of all HTML elements, CSS selectors, and CSS properties/value found in the culmination project/portfolio rubric.

Character Attributes

- Integrity
- Perseverance
- Responsibility
- Cooperation
- Respect
- Courage
- Compassion

Technology Competencies

- Manage files and folders
- Identify and select appropriate delivery methods and tools for digital media projects
- Identify and apply appropriate design concepts and create web pages
- Identify client and target audience needs
- Identify basic network connectivity concepts
- Students evaluate the accuracy and quality of their online work
- Students use technology tools to enhance learning, increase productivity and promote creativity
- Students practice responsible use of technology systems, information and software
- Develop a mastery of technology tools required to enhance academic, business and personal performance for success
- Students use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources
- Students create original works as a means of personal or group expression.
- Students apply existing knowledge to generate new ideas, products, and processes
- Students demonstrate a sound understanding of technology concepts, systems, and operations

Develop Teaching and Learning Plan		
Teaching Strategies:	Learning Activities:	
 Teacher demonstrates the use of websites to problem solve 	 Students will collaborate in teams of 3- 4 to evaluate student work 	
 Teacher demonstrates the process of submitting student projects using the network 	 Students will self asses their work on the culminating project/portfolio Students will present their 	
 Leacher will demonstrate how to use the project rubric 	project/portfolio	
 Teacher will inform students on how to complete the self-assessment worksheet 		

Assessments		
Performance Task(s) Authentic application to evaluate student achievement of desired results designed according to GRASPS (one per marking period)	Other Evidence Application that is functional in a classroom context to evaluate student achievement of desired results	
 Goal: Complete electronic portfolio including examples of student's original HTML/CSS work. Role: Applicant for paid internship at a local Web Design company. 	 Students review their summative assessment Observations made in team assessments of student work Completion of project/portfolio Student responses in journal entries 	
Audience: Interviewer.	Reflective writing	
Situation: You have conducted a skype interview with a local business to secure a position as a paid intern working with HTML and CSS to create and maintain commercial websites. You have been asked to present a portfolio of your HTML and CSS work for round two of the interview process. You have two weeks to gather the work necessary to complete and polish your portfolio.	 Students will demonstrate knowledge of technology terms presented 	
Product or Performance : Completed Portfolio presented to potential employer (peers)		
Standards for Success: Hired as paid intern (approval of peers) justified by integration of class work and individual project work corroborated (rubric) by presented material and submission electronically.		
Suggested Resources		
 Duckett, Jon. HTML & CSS: Design and Build Websites. Indianapolis, IN: Wiley, 2011. Print. 		
 "HTML Color Picker." ColorPicker.com. N.p., n.d. Web. 09 July 2015. 		
 "HTML." W3Schools Online Web Tutorials. N.p., n.d. Web. 09 July 2015. "Learn to Design and Develop Websites." Web Development Tutorials. N.p., n.d. Web. 09 July 2015. "W3C." World Wide Web Consortium (). N.p., n.d. Web. 09 July 2015. 		
		 "Web Design & Development I." Web Design & Development I. N.p., n.d. Web. 09 July 2015.

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