# Conneaut School District – Computer Education Curriculum Map

**Course**: Internet **Grades**: 10-12 Elective **Time**: 18 weeks at 45 min per day

| Time-Line | CONTENT | STANDARDS | SKILLS | ASSESSMENT |
|---|---|---|---|---|
| 2 wks | **INTERNET TERMINOLOGY, SEARCHES, AND HISTORY** | 1.1C<br>1.2<br>1.5<br>1.6D<br>3.7C<br>3.7D<br>3.7E | • Identify internet terminology<br>• Learn and use different search techniques<br>• Research about the history of computers and the internet, and key players | • Glossary exercise<br>• On-line scavenger hunts<br>• Research paper with cited resources, and class presentation<br>• Quiz on each topic presented |
| 2 days | **HYPERTEXT MARKUP LANGUAGE**<br>• **Lesson 1:** Quick HTML Know-How | 1.1C<br>1.2<br>1.5<br>3.7C<br>3.7D<br>3.7E | • View HTML tags<br>• Enter starting tags<br>• Save correctly<br>• Integrate levels of headings into Web pages<br>• Create unordered, ordered, and embedded lists | • Daily practice exercises<br>• Vocabulary review and review questions<br>• Projects to demonstrate understanding of Lesson 1 concepts<br>• Capstone simulation: Use HTML to create an outline for a book that is composed of units, chapters and sections |
| 2 days | **HYPERTEXT MARKUP LANGUAGE**<br>• **Lesson 2:** Basic Organization Techniques | 1.1C<br>1.2<br>3.7C<br>3.7D<br>3.7E | • Format pages with single and double spacing<br>• Organize page information with lines<br>• Implement attributes and values<br>• Change Web page color defaults by altering attributes and value as with both HTML and CSS<br>• Create a hyperlink to another location within a Web page | • Daily practice exercises<br>• Vocabulary review and review questions<br>• Projects to demonstrate understanding of Lesson 2 concepts<br>• Capstone simulation: In HTML create Top Ten Favorite Web Sites page with active links |

| Time | Unit/Lesson | TEKS | Objectives | Assessment |
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| | | | • Make a hyperlink to a URL or Web page on the Web<br>• Link to another Web page on your own computer | |
| 2 days | **HYPERTEXT MARKUP LANGUAGE**<br>• **Lesson 3:** Power Techniques | 1.1C<br>1.2<br>3.7C<br>3.7D<br>3.7E | • Control the size, style and color of fonts<br>• Download pictures from the Web<br>• Insert pictures into your Web page<br>• Change the size of graphics<br>• Use tables to organize information<br>• Turn pictures into hyperlinks<br>• Insert a variety of data input options | • Daily practice exercises<br>• Vocabulary review and review questions<br>• Projects to demonstrate understanding of Lesson 3 concepts<br>• Capstone simulation: Create a Web page for a local zoo |
| 2 days | **HYPERTEXT MARKUP LANGUAGE**<br>• **Lesson 4:** HTML Structural Design Techniques | 1.1C<br>1.2<br>3.7C<br>3.7D<br>3.7E | • Create a frameset<br>• Add a navigation bar<br>• Make a welcome page<br>• Create a nested frameset<br>• Include a title bar frame and page<br>• Utilize frame and frameset options | • Daily practice exercises<br>• Vocabulary review and review questions<br>• Projects to demonstrate understanding of Lesson 4 concepts<br>• Capstone simulation: Using what students learned about frames and frame sets, students will reorganize the Web site in book with right-hand navigation |
| 2 days | **HYPERTEXT MARKUP LANGUAGE**<br>• **Lesson 5:** Introduction to Cascading Style Sheets | 1.1C<br>1.2<br>3.7C<br>3.7D<br>3.7E | • Create a Cascading Style Sheet<br>• Control hyperlink behavior with CSS<br>• Create style classes<br>• Share style classes | • Daily practice exercises<br>• Vocabulary review and review questions<br>• Projects to demonstrate understanding of Lesson 5 concepts |

| Time | Unit | Standards | Objectives | Activities |
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| | | | among Web Pages<br>• Control HTML table appearance with CSS | • Capstone simulation: Create a three-frame Web page |
| 2 day | **HTML BASICS**<br>• Unit I Review | 1.1C<br>1.5<br>3.7C<br>3.7D<br>3.7E | • Recall HTML tags and attributes<br>• Apply HTML tags as a review | • Review Questions<br>• Simulation – Job 1-1 Create a Web site cataloging sites where you can learn about HTML, Java, and other Web creation tools such as Expression Web 2.<br>• Simulation – Job 1-2: Collect info about 10 high-tech jobs and qualifications you need<br>• Test HTML |
| 1 wk | **MICROSOFT EXPRESSION**<br>• UNIT A: GETTING STARTED WITH MICROSOFT EXPRESSION WEB | 1.1C<br>3.7C<br>3.7D<br>3.7E | • Understand Web design software<br>• Start Microsoft Expression Web<br>• Explore the Expression Web workspace<br>• Open a Web page and preview it in a browser<br>• Work with views and task panes<br>• View Web page elements and visual aids | • Daily practice exercises<br>• Concepts Review Work<br>• Independent challenge exercises to apply skills<br>• Begin planning a Personal Web site<br>• Visual Workshop exercise |
| 1 wk | **MICROSOFT EXPRESSION**<br>• UNIT B: CREATING A WEB SITE | 1.1C<br>1.8C<br>3.7C<br>3.7D<br>3.7E | • Research and plan a Web site<br>• Plan a page layout<br>• Create a Web site<br>• Create a Web page and set CSS options<br>• Add a title, page description, and keywords<br>• Manage Web pages<br>• Add a folder to a Web | • Daily practice exercises<br>• Concepts Review Work<br>• Independent challenge exercises to apply skills<br>• Sketch a site map, then create the Personal Web site, and begin collecting content and images for site<br>• Visual Workshop exercise |

| Time | Unit | Standards | Objectives | Activities |
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| 1.4 wks | **MICROSOFT EXPRESSION**<br>• **UNIT C: ADDING TEXT AND LINKS** | 1.1C<br>1.5<br>1.8C<br>3.7C<br>3.7D<br>3.7E | site<br>• Change the Web site view<br>• Insert a text file into a Web page<br>• Paste text into a Web page<br>• Type text and insert symbols<br>• Check spelling and use the thesaurus<br>• Create internal and external links<br>• Create and link to a bookmark<br>• Create an e-mail link<br>• Copy and paste content between pages | • Daily practice exercises<br>• Concepts Review Work<br>• Independent challenge exercises to apply skills<br>• Add and edit text, and add links to Personal Web site.<br>• Visual Workshop exercise<br>• Final Project – Personal Web Page |
| 1.4 wks | **MICROSOFT EXPRESSION**<br>• **UNIT D: STRUCTURING AND STYLING TEXT** | 1.1C<br>1.2<br>1.5<br>1.8C<br>3.7C<br>3.7D<br>3.7E | • Structure content with HTML<br>• Create paragraphs and line breaks<br>• Create headings<br>• Create lists<br>• Understand Cascading Style Sheets<br>• Create an element-based style rule<br>• Modify a style rule<br>• Create a class-based style rule<br>• Apply and remove a class-based style rule | • Daily practice exercises<br>• Concepts Review Work<br>• Independent challenge exercises to apply skills<br>• Add structure and styles to the text on the pages of the Personal Web site.<br>• Visual Workshop exercise |
| 1 wk | **MICROSOFT EXPRESSION**<br>• **UNIT E: WORKING WITH PICTURES** | 1.1C<br>3.7C<br>3.7D | • Understand Web graphics<br>• Insert a picture<br>• Resize and resample a | • Daily practice exercises<br>• Concepts Review Work<br>• Independent challenge exercises to apply skills |

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|---|---|---|---|
| | 3.7E | <ul><li>picture</li><li>Edit a picture</li><li>Set wrapping style and margins</li><li>Set Auto Thumbnail options</li><li>Create a thumbnail picture</li><li>Style a thumbnail picture</li></ul> | <ul><li>Add pictures to the Personal Web site.</li><li>Visual Workshop exercise</li></ul> |
| 1 wk | **MICROSOFT EXPRESSION**<br>**UNIT F: ENHANCING A DESIGN WITH CSS**<br>1.1C<br>3.7C<br>3.7D<br>3.7E | <ul><li>Understand CSS layouts</li><li>Add background images</li><li>Set a background color using the Eyedropper tool</li><li>Set a background color using a swatch</li><li>Add a border</li><li>Set margins and padding</li><li>Style the footer</li><li>Add a font family</li><li>Style headings</li></ul> | <ul><li>Daily practice exercises</li><li>Concepts Review Work</li><li>Independent challenge exercises to apply skills</li><li>Enhance the Personal Web site with background images, background colors, borders, margins, paddings, and style headings.</li><li>Visual Workshop exercise</li></ul> |
| 4 days | **MICROSOFT EXPRESSION**<br>**UNIT G: DESIGNING SITE NAVIGATION**<br>1.1C<br>3.7C<br>3.7D<br>3.7E | <ul><li>Understand effective navigation</li><li>Create an interactive button</li><li>Edit an interactive button</li><li>Create a navigation bar</li><li>Add a navigation bar to site pages</li><li>Understand link styles</li><li>Create link styles</li></ul> | <ul><li>Daily practice exercises</li><li>Concepts Review Work</li><li>Independent challenge exercises to apply skills</li><li>Add navigation bar to each page in the Personal Web site and create link styles</li><li>Visual Workshop exercise</li></ul> |
| 4 days | **MICROSOFT EXPRESSION**<br>**UNIT H: TESTING AND PUBLISHING YOUR WEB SITE**<br>1.1C<br>3.7C<br>3.7D<br>3.7E | <ul><li>Verify Hyperlinks</li><li>View and edit page titles</li><li>Understand accessibility</li><li>Test accessibility</li><li>Understand Web server types</li><li>Set up and connect to a</li></ul> | <ul><li>Daily practice exercises</li><li>Concepts Review Work</li><li>Independent challenge exercises to apply skills</li><li>Verify all hyperlinks, view and edit page titles, and check accessibility for the Personal</li></ul> |

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| | | | remote Web site <br> • Publish a Web site | • Web site. <br> • Visual Workshop exercise |
| 1 wk | **MICROSOFT EXPRESSION** <br> • **UNIT I: WORKING WITH TABLES** | 1.1C <br> 3.7C <br> 3.7D <br> 3.7E | • Insert a table and add content <br> • Apply an AutoFormat to a table <br> • Set table properties <br> • Merge cells <br> • Add and resize rows and columns <br> • Modify cell properties <br> • Modify a table style <br> • Make a table accessible | • Daily practice exercises <br> • Concepts Review Work <br> • Independent challenge exercises to apply skills <br> • Add a table to the Personal Web site. <br> • Visual Workshop exercise |
| 1 wk | **MICROSOFT EXPRESSION** <br> • **UNIT J: CREATING FORMS** | 1.1C <br> 1.2 <br> 3.7C <br> 3.7D <br> 3.7E | • Understand forms and form controls <br> • Add a form to a Web page <br> • Group form controls <br> • Add a text box <br> • Add radio buttons <br> • Add checkboxes <br> • Add a drop-down box <br> • Add a text area <br> • Add buttons | • Daily practice exercises <br> • Concepts Review Work <br> • Independent challenge exercises to apply skills <br> • Add a form to the Personal Web site. <br> • Visual Workshop exercise |
| 1.2 wks | **MICROSOFT EXPRESSION** <br> • **UNIT K: WORKING WITH BEHAVIORS** | 1.1C <br> 1.2 <br> 3.7C <br> 3.7D <br> 3.7E | • Understand behaviors <br> • Add a popup message <br> • Add a status message <br> • Add a jump menu <br> • Add an image swap <br> • Open a browser window <br> • Modify a behavior | • Daily practice exercises <br> • Concepts Review Work <br> • Independent challenge exercises to apply skills <br> • Add some behaviors to the Personal Web site. <br> • Visual Workshop exercise |
| 1 wk | **MICROSOFT EXPRESSION** <br> • **UNIT L: WORKING IN CODE VIEW** | 1.1C <br> 1.2 <br> 3.7C <br> 3.7D <br> 3.7E | • Work in Code view <br> • Remove a tag <br> • Use the Quick Tag Editor <br> • Insert HTML comments <br> • Use the Find and Replace feature | • Daily practice exercises <br> • Concepts Review Work <br> • Independent challenge exercises to apply skills <br> • Use Expression Web's code tools to make some changes |

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| | | | • Use the Tag Properties task pane<br>• Use code hyperlinks to locate CSS code<br>• Use the CSS Properties task pane | of choice to the Personal Web site.<br>• Visual Workshop exercise |
| 1 wk | **MICROSOFT EXPRESSION**<br>• **UNIT M: UNDERSTANDING THE IMPORTANCE OF TYPOGRAPHY** | 1.1C<br>1.2<br>1.5<br>3.7C<br>3.7D<br>3.7E | • Understand the importance of typography<br>• Control line length<br>• Use the line-height property<br>• Use the tax-transform property<br>• Use the letter-spacing property<br>• Create and apply a drop cap style<br>• Create and apply a pull quote style<br>• Create advanced typography effects | • Daily practice exercises<br>• Concepts Review Work<br>• Independent challenge exercises to apply skills<br>• Create and modify style rules to refine the typography of the Personal Web site.<br>• Visual Workshop exercise |