

**Trinity Area School District  
Template for Curriculum Mapping**

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| <b>Course: Web Design</b><br><b>Grade: 9 – 12</b> | <b>Overview of Course</b> (Briefly describe what students should understand and be able to do as a result of engaging in this course):<br>This course introduces students to basic web design using HTML (Hypertext Markup Language) and CSS (Cascading Style Sheets). HTML and CSS are the standard languages that all pages on the Web are written and styled. This course does not require any prior knowledge of web design. The students will plan and design effective web pages using HTML and CSS coding, utilizing page layout techniques, text formatting, and graphics. This course will provide students with the basic skills to create web pages suitable for course work, professional purposes, and personal use. |
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**Overarching Big Ideas, Enduring Understandings, and Essential Questions**  
(These “spiral” throughout the entire curriculum.)

| <b>Big Idea</b><br>(A Big Idea is typically a noun and always transferable within and among content areas.) | <b>Standard(s) Addressed</b><br>(What Common Core Standard(s) and/or PA Standard(s) addresses this Big Idea?)   | <b>Enduring Understanding(s)</b><br>(SAS refers to Enduring Understandings as “Big Ideas.” EUs are the understandings we want students to carry with them after they graduate. EUs will link Big Ideas together. Consider having only one or two EUs per Big Idea.)  | <b>Essential Question(s)</b><br>(Essential Questions are broad and open ended. Sometimes, EQs can be debated. A student’s answer to an EQ will help teachers determine if he/she truly understands. Consider having only one or two EQs per Enduring Understanding.) |
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| Design  | <p><b>15.4.12.G</b><br/>Create an advanced digital project using sophisticated design and appropriate software/applications.</p> <p><b>15.4.12.K</b><br/>Evaluate advanced multimedia work products and make recommendations based on the evaluation.</p> | <ul style="list-style-type: none"> <li>• Effective use of the programming language and advanced style elements can enhance the readability of a Web page.</li> <li>• Knowing how to evaluate the design and credibility of Web sites can be beneficial to you both academically and professionally.</li> </ul> | <ul style="list-style-type: none"> <li>• What advanced style elements of a Web page make it look appealing and professional?</li> <li>• Why is evaluating the design and credibility of a Web site important to you academically and professionally?</li> </ul>      |
| Application   | <p><b>15.4.12.H</b><br/>Use programming languages to develop logical thinking and problem solving skills.</p>   | <ul style="list-style-type: none"> <li>• Designing an advanced digital project by utilizing different elements of the programming language will enhance the appearance of a Web page.</li> </ul>   | <ul style="list-style-type: none"> <li>• How can utilizing different elements of the programming language enhance the appearance of your Web page?</li> </ul>  |

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|            | <b>15.4.12.J</b><br>Create a complex computer program to solve a problem.   | <ul style="list-style-type: none"> <li>• Creating a style sheet to enhance a Web page can save you time.</li> </ul>   | <ul style="list-style-type: none"> <li>• How can creating a style sheet save you time when designing your Web page?</li> </ul>   |
| Technology | <b>15.4.12.A</b><br>Apply the creative and productive use of emerging technologies for educational and personal success.<br><b>15.4.12.B</b><br>Evaluate the impact of social, legal, ethical, and safe behaviors on digital citizenship.<br><b>15.4.12.M</b><br>Evaluate the impact of emerging technologies on various career paths and provide examples of industry certifications within the field. | <ul style="list-style-type: none"> <li>• Knowing how to apply technology and utilizing special features can enhance a Web page.</li> <li>• Knowing how to properly handle technology is important to your digital citizenship.</li> <li>• There are many different career paths in the computer science field.</li> </ul> | <ul style="list-style-type: none"> <li>• How can effectively utilizing special features of the programming language enhance the outcome of your Web page?</li> <li>• How is good digital citizenship beneficial to your online safety?</li> <li>• What are the different career paths in the field of computer science?</li> </ul> |
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**Big Ideas, Enduring Understandings, and Essential Questions Per Unit of Study**  
(These do NOT “spiral” throughout the entire curriculum, but are specific to each unit.)

| <b>Month of Instruction</b><br>(In what month(s) will you teach this unit?) | <b>Title of Unit</b> | <b>Big Idea(s)</b><br>(A Big Idea is typically a noun and always transferable within and among content areas.) | <b>Standard(s) Addressed</b><br>(What Common Core Standard(s) and/or PA Standard(s) addresses this Big Idea?) | <b>Enduring Understanding(s)</b><br>(SAS refers to Enduring Understandings as “Big Ideas.” EUs are the understandings we want students to carry with them after they graduate. EUs will link Big Ideas together. Consider having only one or two EUs per Big Idea.) | <b>Essential Question(s)</b><br>(Essential Questions are broad and open ended. Sometimes, EQs can be debated. A student’s answer to an EQ will help teachers determine if he/she truly understands. Consider having only one or two EQs per Enduring Understanding.) | <b>Common Assessment(s)</b><br>*<br>(What assessments will all teachers of this unit use to determine if students have answered the Essential Questions?) | <b>Common Resource(s)* Used</b><br>(What resources will all teachers of this unit use to help students understand the Big Ideas?) |
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| August – early September | Evaluation of Web Design   | Design<br>Technology                | 15.4.12.K<br>15.4.12.B                           | Using a design checklist can enhance the outcome of your Web site.<br><br>Evaluating the positive and negative design elements of a Web page.   | <ul style="list-style-type: none"> <li>• How can using a design checklist enhance the outcome of your Web site?</li> <li>• What is the benefit of evaluating the positive and negative elements of a Web page?</li> </ul> |  |  |
| September                | Introduction to HTML       | Design<br>Application<br>Technology | 15.4.12.G<br>15.4.12.H<br>15.4.12.A<br>15.4.12.B | Effectively creating and applying formatting elements will enhance the design of a Web page.<br><br>Adding lists, graphics and links enhance your Web page.   | <ul style="list-style-type: none"> <li>• How can applying formatting elements enhance the outcome of your Web page?</li> <li>• How can lists, graphics and links enhance your Web page?</li> </ul>                        |  |  |
| Late September - October | Table Design & Application | Design<br>Application<br>Technology | 15.4.12.G<br>15.4.12.H<br>15.4.12.A<br>15.4.12.B | Creating a table using the programming language organizes the content to make the Web page useful and appealing.<br><br>Effectively applying advanced formatting elements will enhance the design of a table. | <ul style="list-style-type: none"> <li>• How would a table contribute to the usefulness and attractiveness of Web page?</li> <li>• Why would you want to use advanced formatting elements of a table?</li> </ul>          |  |  |
| October – early November | Navigation Tools           | Design<br>Application               | 15.4.12.G<br>15.4.12.H                           | Creating an efficient navigational structure is   | <ul style="list-style-type: none"> <li>• How does an efficient navigational structure</li> </ul>  |  |  |

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|                       |                        | Technology                                  | 15.4.12.A<br>15.4.12.B   | necessary for easy access to Web pages.<br><br>Utilizing additional formatting elements contribute to an effective navigational scheme.                               | contribute to Web page accessibility?<br><ul style="list-style-type: none"> <li>Why would you use additional formatting elements to create a navigational scheme?</li> </ul>  |  |  |
| November              | Form Design            | Design<br><br>Application<br><br>Technology | 15.4.12.K<br>15.4.12.G<br>15.4.12.H<br>15.4.12.A<br>15.4.12.B              | Forms are an effective communication tool in Web design.<br><br>Labels, fields and formatting elements are essential when designing a user-friendly form.             | <ul style="list-style-type: none"> <li>How can a form be used as an effective communication tool?</li> <li>Why are labels, fields and formatting elements essential when designing forms?</li> </ul>                                    |  |  |
| December -<br>January | Cascading Style Sheets | Design<br><br>Application<br><br>Technology | 15.4.12.J<br>15.4.12.K<br>15.4.12.G<br>15.4.12.H<br>15.4.12.A<br>15.4.12.B | Cascading Style Sheets are used to create consistency between Web pages.<br><br>Effectively using style attributes and values will enhance the make-up of a Web site. | <ul style="list-style-type: none"> <li>How is cascading style sheets used to create consistency when designing Web pages?</li> <li>What are the advantages of using style attributes and values during Web site development?</li> </ul> |  |  |

\* Some teachers may need to think about the assessments and resources used in order to determine the Big Ideas, Enduring Understandings, and Essential Questions embedded in their courses. At this point in your curriculum mapping, you might want to ignore the “Common Assessments” and “Common Resources Used” columns. However, you may use them if you wish.