

## Curriculum Map: Web Design 2022-23

Course: WEB DESIGN Sub-topic: General

Grade(s): 9 to 12

**Course Description:** As a student in this one-semester course, you will learn to develop effective websites. You will learn the procedures used in Adobe Dreamweaver CC to work with Cascading Style Sheets, manage images, create links and menu bars, and use tables to position content. You will also learn to make websites interactive and able to collect data through the use of forms. Finally, you will learn how to create websites using hypertext markup language (HTML) at replit.com.

Curriculum Guide:

Web page design is a half-year course designed to serve as an introduction to creating web pages and web sites. Students will utilize a hands-on approach to study proper web design. The course is open to 10th, 11th and 12th grade students. Study of HTML tags will be followed by the use of Dreamweaver to create web pages and web sites and to create and manipulate graphics for use on the web. Students will be required to complete web page projects for grading purposes.

**Course Textbooks, Workbooks, Materials Citations:** Adobe Dreamweaver CC Revealed  
Cengage Learning, copyright 2015  
Dreamweaver CC 2019

### Unit: HTML Coding

Timeline: Week 1

**Unit Description:** This unit focuses on teaching students how to use HTML tags to create a web page.

**Unit Essential Questions:** How does an entrepreneur use technology to impact the operations and performance of a business?

**Unit Big Ideas:** An entrepreneur uses technology to impact the operations and performance of a business.

**Unit Materials:** Google Chrome, WordPad, and Internet

**Unit Assignments:** HTML coding exercises

**Unit Key Terminology & Definitions :** HTML  
HTML tag  
head  
body

### STANDARDS: STANDARDS

STATE: Pennsylvania SAS Academic Standards (2009-2013)

[15.4.12.G \(Advanced\)](#) Create an advanced digital project using sophisticated design and appropriate software/applications.

**Topic: Create web pages using HTML**

Minutes for Topic: 220

**Unit: Google Sites**

Timeline: Week 2

**Unit Description:** This unit focuses on teaching students how to use Google Sites to create a website.

**Unit Essential Questions:** How does an entrepreneur use technology to impact the operations and performance of a business?

**Unit Big Ideas:** An entrepreneur uses technology to impact the operations and performance of a business.

**Unit Materials:** Google Sites and Internet

**Unit Assignments:** Google Sites student exercises

**Unit Key Terminology & Definitions :** wireframe  
homepage  
menu bar

**STANDARDS: STANDARDS**

STATE: Pennsylvania SAS Academic Standards (2009-2013)

15.4.12.G (Advanced) Create an advanced digital project using sophisticated design and appropriate software/applications.

**Topic: Build a website using Google Sites**

Minutes for Topic: 220

**Unit: Ch 1 - Getting Started with Dreamweaver**

Timeline: Week 2 to 3

**Unit Description:** This unit will focus on teaching students how to create a website using Dreamweaver CC. Students will explore the Dreamweaver workspace, view web pages, use help, plan and set up a website, and add a folder and pages to a website.

**Unit Essential Questions:** An entrepreneur uses technology to impact the operations and performance of a business.

**Unit Big Ideas:** An entrepreneur uses technology to impact the operations and performance of a business.

**Unit Materials:** Dreamweaver CC and Internet

**Unit Assignments:** Ch 1 Class Demo (Striped Umbrella website)  
Ch 1 Skills Review (Blooms & Bulbs website)  
Ch 1 Project Builder (TripSmart website)  
Ch 1 Project Builder 2 (Carolyne's Creations website)  
Ch 1 Portfolio Project (Your website)

**Unit Key Terminology & Definitions :** website  
HTML

workspace switcher  
banner  
links or hyperlinks  
menu bar  
image map  
wireframe  
web server  
home page

**STANDARDS: STANDARDS**

STATE: Pennsylvania SAS Academic Standards (2009-2013)

[15.4.12.G](#)  
[\(Advanced\)](#)

Create an advanced digital project using sophisticated design and appropriate software/applications.

**Topic: Ch 1 Class Demonstration**

Minutes for Topic: 132

**Topic: Ch 1 Student Exercises**

Minutes for Topic: 396

**Unit: Ch 2 - Develop a Web Page**

Timeline: Week 4 to 5

**Unit**

This unit will focus on teaching students how to develop a web page. They will create head content and set page properties, create, import and format text, add links to web pages, and modify and test web pages.

**Description:**

**Unit Essential**

How does an entrepreneur use technology to impact the operations and performance of a business?

**Questions:**

**Unit Big Ideas:**

An entrepreneur uses technology to impact the operations and performance of a business.

**Unit Materials:**

Dreamweaver CC and Internet

**Unit**

**Assignments:**

Ch 2 Class Demo (Striped Umbrella website)

Ch 2 Skills Review (Blooms & Bulbs website)

Ch 2 Project Builder (TripSmart website)

Ch 2 Project Builder 2 (Carolyne's Creations website)

Ch 2 Portfolio Project (Your website)

**Unit Key**

**Terminology & Definitions :**

head content

meta tags

keywords

body

cascading style sheet (CSS)

broken links

**STANDARDS: STANDARDS**

STATE: Pennsylvania SAS Academic Standards (2009-2013)

[15.4.12.G](#)  
(Advanced)

Create an advanced digital project using sophisticated design and appropriate software/applications.

**Topic: Ch 2 Class Demonstration**

Minutes for Topic: 176

**Topic: Ch 2 Student Exercises**

Minutes for Topic: 308

**Unit: Ch 3 - Work with Text and CSS**

Timeline: Week 6 to 7

**Unit**

**Description:** This unit will focus on how to work with text and cascading style sheets. Students will create ordered and unordered lists, create a Cascading Style Sheet and apply, edit, and add rules, understand related files and media queries, add Adobe Edge Web fonts, and use coding tools to view and edit rules.

**Unit Essential Questions:** How does an entrepreneur use technology to impact the operations and performance of a business?

**Unit Big Ideas:** An entrepreneur uses technology to impact the operations and performance of a business.

**Unit Materials:** Dreamweaver CC and Internet

**Unit**

**Assignments:**

Ch 3 Class Demo (Striped Umbrella website)

Ch 3 Skills Review (Blooms & Bulbs website)

Ch 3 Project Builder (TripSmart website)

Ch 3 Project Builder 2 (Carolyne's Creations website)

Ch 3 Portfolio Project (Your website)

**Unit Key**

**Terminology &**

**Definitions :**

cascading style sheets (css)

unordered lists or bulleted lists

ordered lists or numbered lists

external style sheet

internal or embeded style

class type

ID type and tag type

compound type

related files

selector

**STANDARDS: STANDARDS**

STATE: Pennsylvania SAS Academic Standards (2009-2013)

[15.4.12.G](#)  
(Advanced)

Create an advanced digital project using sophisticated design and appropriate software/applications.

**Topic: Ch 3 Class Demonstration**

Minutes for Topic: 220

**Topic: Ch 3 Student Exercises**

Minutes for Topic: 352

**Unit: Ch 4 - Add images**

Timeline: Week 8 to 9

**Unit Description:** This unit will focus on how to add images to web pages using Dreamweaver CC. Students will insert and align images using Cascading Style Sheets (CSS), enhance an image, use alternate text, insert a background image, perform site maintenance, and add graphic enhancements.

**Unit Essential Questions:** How does an entrepreneur use technology to impact the operations and performance of a business?

**Unit Big Ideas:** An entrepreneur uses technology to impact the operations and performance of a business.

**Unit Materials:** Dreamweaver CC and Internet

<b>Unit Assignments:</b>	Ch 4 Class Demo (Striped Umbrella website)
	Ch 4 Skills Review (Blooms & Bulbs website)
	Ch 4 Project Builder (TripSmart website)
	Ch 4 Project Builder 2 (Carolyne's Creations website)
	Ch 4 Portfolio Project (Your website)

<b>Unit Key Terminology &amp; Definitions :</b>	graphics
	assets panel
	aligning
	favorites
	border
	background image
	tiled image
	thumbnail image
	favicon

**STANDARDS: STANDARDS**STATE: [Pennsylvania SAS Academic Standards \(2009-2013\)](#)

[15.4.12.G \(Advanced\)](#) Create an advanced digital project using sophisticated design and appropriate software/applications.

**Topic: Ch 4 Class Demonstration**

Minutes for Topic: 220

**Topic: Ch 4 Student Exercises**

Minutes for Topic: 396

**Unit: Ch 5 - Work with Links and Navigation**

Timeline: Week 10 to 11

**Unit Description:** This unit will focus on working with links and navigation on web pages using Dreamweaver CC. Students will create external and internal links, use IDs to navigate to specific page locations, create, modify, and copy a menu bar, and manage website links.

**Unit Essential Questions:** How does an entrepreneur use technology to impact the operations and performance of a business?

**Unit Big Ideas:** An entrepreneur uses technology to impact the operations and performance of a business.

**Unit Materials:** Dreamweaver CC and Internet

**Unit Assignments:**

- Ch 5 Class Demo (Striped Umbrella website)
- Ch 5 Skills Review (Blooms & Bulbs website)
- Ch 5 Project Builder (TripSmart website)
- Ch 5 Project Builder 2 (Carolyne's Creations website)
- Ch 5 Portfolio Project (Your website)

**Unit Key Terminology & Definitions :**

- internal links
- external links
- social networking
- online communities
- path
- absolute path
- Uniform Resource Locator (URL)
- relative path
- target
- state
- items
- image map
- hotspot
- orphaned files
- site map

**STANDARDS: STANDARDS**

STATE: Pennsylvania SAS Academic Standards (2009-2013)

[15.4.12.G \(Advanced\)](#) Create an advanced digital project using sophisticated design and appropriate software/applications.

**Topic: Ch 5 Class Demonstration**

Minutes for Topic: 220

**Topic: Ch 5 Student Exercises**

Minutes for Topic: 440

**Unit: Ch 6 - Position Objects with CSS and Tables**

Timeline: Week 12 to 13

**Unit Description:** This unit will focus on positioning objects with Cascading Style Sheets and Tables using Dreamweaver CC. Students will create a page using a Fluid Grid layout, add and position divs, add content to divs, create a table, resize, split, and merge cells, insert and align images in table cells, and insert text and format cell content.

**Unit Essential Questions:** How does an entrepreneur use technology to impact the operations and performance of a business?

**Unit Big Ideas:** An entrepreneur uses technology to impact the operations and performance of a business.

**Unit Materials:** Dreamweaver CC and Internet

**Unit Assignments:**

- Ch 6 Class Demo (Striped Umbrella website)
- Ch 6 Skills Review (Blooms & Bulbs website)
- Ch 6 Project Builder (TripSmart website)
- Ch 6 Project Builder 2 (Carolyn's Creations website)
- Ch 6 Portfolio Project (Your website)

**Unit Key Terminology & Definitions :**

- CSS page layouts
- div tags
- tables
- cells
- rows and columns
- behaviors
- fluid grid layout
- Document Object Model (DOM)
- merge and split

**STANDARDS: STANDARDS**  
STATE: Pennsylvania SAS Academic Standards (2009-2013)  
[15.4.12.G \(Advanced\)](#) Create an advanced digital project using sophisticated design and appropriate software/applications.

**Topic: Ch 6 Class Demonstration**  
Minutes for Topic: 220

**Topic: Ch 6 Student Exercises**  
Minutes for Topic: 440

### **Unit: Ch 7 - Manage a Web Server and Files**

Timeline: Week 14

**Unit Description:** This unit will focus on managing a web server and files using Dreamweaver CC. Students will perform website maintenance, learn how to publish a website and transfer files, check files out and in, cloak files, import and export a site definition, evaluate web content for legal use, and present a website to a client.

**Unit Essential Questions:** How does an entrepreneur use technology to impact the operations and performance of a business?

**Unit Big Ideas:** An entrepreneur uses technology to impact the operations and performance of a business.

**Unit Materials:** Dreamweaver CC and Internet

**Unit** Ch 7 Class Demo (Striped Umbrella website)

**Assignments:**

Ch 7 Skills Review (Blooms &amp; Bulbs website)

Ch 7 Project Builder (TripSmart website)

Ch 7 Project Builder 2 (Carolyne's Creations website)

Ch 7 Portfolio Project (Your website)

**Unit Key Terminology & Definitions :**

cloaked

validate markup

web server

upload

download

site definition

copyright

trademark

derivative works

public domain

licensing agreement

fair use

terms of use

**STANDARDS: STANDARDS**

STATE: Pennsylvania SAS Academic Standards (2009-2013)

[15.4.12.G](#)  
(Advanced)

Create an advanced digital project using sophisticated design and appropriate software/applications.

**Topic: Ch 7 Class Demonstration**

Minutes for Topic: 88

**Topic: Ch 7 Student Exercises**

Minutes for Topic: 132

**Unit: Ch 8 - Use Styles and Style Sheets for Design**

Timeline: Week 15 to 16

**Unit**

This unit will focus on using styles and style sheets for design using Dreamweaver CC.

**Description:**

Students will create and use embedded styles, modify embedded styles, and work with conflicting styles.

**Unit Essential Questions:**

How does an entrepreneur use technology to impact the operations and performance of a business?

**Unit Big Ideas:** An entrepreneur uses technology to impact the operations and performance of a business.**Unit Materials:** Dreamweaver CC and Internet**Unit****Assignments:**

Ch 8 Class Demo (Striped Umbrella website)

Ch 8 Skills Review (Blooms &amp; Bulbs website)

Ch 8 Project Builder (TripSmart website)

Ch 8 Project Builder 2 (Carolyne's Creations website)

Ch 8 Portfolio Project (Your website)

**Unit Key Terminology & Definitions :** external style sheet  
global CSS rule  
embedded style  
inline style  
pseudo class styles

**STANDARDS: STANDARDS**

STATE: Pennsylvania SAS Academic Standards (2009-2013)

[15.4.12.G \(Advanced\)](#)

Create an advanced digital project using sophisticated design and appropriate software/applications.

**Topic: Ch 8 Class Demonstration**

Minutes for Topic: 220

**Topic: Ch 8 Student Exercises**

Minutes for Topic: 440

**Unit: Ch 9 - Collect Data and Forms**

Timeline: Week 17 to 18

**Unit Description:** This unit will focus on collecting data with forms using Dreamweaver CC. Students will plan and create a form, edit and format a form, work with form objects, and test and process a form.

**Unit Essential Questions:** How does an entrepreneur use technology to impact the operations and performance of a business?

**Unit Big Ideas:** An entrepreneur uses technology to impact the operations and performance of a business.

**Unit Materials:** Dreamweaver CC and Internet

**Unit Assignments:** Ch 9 Class Demo (Striped Umbrella website)  
Ch 9 Skills Review (Blooms & Bulbs website)  
Ch 9 Project Builder (TripSmart website)  
Ch 9 Project Builder 2 (Carolyne's Creations website)  
Ch 9 Portfolio Project (Your website)

**Unit Key Terminology & Definitions :** form objects  
form labels  
radio buttons  
radio group  
menu or list  
hidden fields  
image field  
file field  
submit button  
reset button

label tag

add-ons

**STANDARDS: STANDARDS**

STATE: Pennsylvania SAS Academic Standards (2009-2013)

[15.4.12.G](#)  
(Advanced)

Create an advanced digital project using sophisticated design and appropriate software/applications.

**Topic: Ch 9 Class Demonstration**

Minutes for Topic: 220

**Topic: Ch 9 Student Exercises**

Minutes for Topic: 440

**Unit: Ch 10 - Add Media and Interactivity**

Timeline: Week 19 to 20

**Unit** This unit will focus on adding media and interactivity to web pages using Dreamweaver CC.

**Description:** Students will add rollover images, add behaviors and CSS transitions, add video and add sound.

**Unit Essential Questions:** How does an entrepreneur use technology to impact the operations and performance of a business?

**Unit Big Ideas:** An entrepreneur uses technology to impact the operations and performance of a business.

**Unit Materials:** Dreamweaver CC and Internet

**Unit** Ch 10 Class Demo (Striped Umbrella website)

**Assignments:** Ch 10 Skills Review (Blooms & Bulbs website)

Ch 10 Project Builder (TripSmart website)

Ch 10 Project Builder 2 (Carolyn's Creations website)

Ch 10 Portfolio Project (Your website)

**Unit Key** plug-in or add-on

**Terminology &**

**Definitions :** media object

rollover image

behaviors

**STANDARDS: STANDARDS**

STATE: Pennsylvania SAS Academic Standards (2009-2013)

[15.4.12.G](#)  
(Advanced)

Create an advanced digital project using sophisticated design and appropriate software/applications.

**Topic: Ch 10 Class Demonstration**

Minutes for Topic: 220

**Topic: Ch 10 Student Exercises**

Minutes for Topic: 440