Unit 4: Web Software/Website Software

Content Area: Technology
Course(s): Web Page Design
Time Period: Sample Time Period

Length: **25 Days** Status: **Published**

Title Section

Department of Curriculum and Instruction



Belleville Public Schools

Curriculum Guide

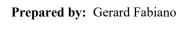
Unit 4: Web Software

Web Page Design

Belleville Board of Education

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Board Approved: September 23, 2019

Unit Overview

In Unit 4 Web Page Design Students will cover the following topics, Basics of Web Software, Creating a Web Layout for coding games, Creating and understanding appropriate online user interaction, Creating and understanding use of fair images, Creating professional based website, Understand how to implement software to website and Understand graphic software for website

Enduring Understanding

Students will be able to understand

The importance for using appropriate pictures based on the audience.

| Understand use of images for all types of websites |
|--|
| Understand the need for Graphic Design Skills when designing websites. |
| Understand the affect images have on the user's experience. |
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| Essential Questions |
| 1. How do graphics affect user's experience? |
| 2. How does computer and web software affect user's experience? |
| 3. Why do programmers use thumbnail images throughout a site? |
| 4. Why do game designers use certain web software? |
| 5. Why are image maps used for advanced pages? |

| 6. Why are different levels and goals needed in web based game? |
|--|
| 7. How do images influence advertising and marketing? |
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| Exit Skills |
| By the end of Unit 4 Students will be able to |
| Have an understanding of Web Software |
| Demonstrate process for coding games |
| Demonstrate an understanding appropriate online user interaction |
| Have an understanding for use of fair images |
| Demonstrate ability to create professional based website |
| have an understanding to implement software to website |
| Have ability to create graphic software for website |
| |

New Jersey Student Learning Standards (NJSLS-S)

| CAEP.9.2.12.C.1 | Review career goals and determine steps necessary for attainment. |
|-----------------|---|
| CAEP.9.2.12.C.2 | Modify Personalized Student Learning Plans to support declared career goals. |
| CAEP.9.2.12.C.3 | Identify transferable career skills and design alternate career plans. |
| CAEP.9.2.12.C.4 | Analyze how economic conditions and societal changes influence employment trends and future education. |
| CAEP.9.2.12.C.6 | Investigate entrepreneurship opportunities as options for career planning and identify the knowledge, skills, abilities, and resources required for owning and managing a business. |
| CAEP.9.2.12.C.7 | Examine the professional, legal, and ethical responsibilities for both employers and employees in the global workplace. |

Interdisciplinary Connections

| LA.RH.11-12.1 | Accurately cite strong and thorough textual evidence, (e.g., via discussion, written response, etc.), to support analysis of primary and secondary sources, connecting insights gained from specific details to develop an understanding of the text as a whole. |
|---------------|--|
| LA.RH.11-12.2 | Determine the theme, central ideas, information and/or perspective(s) presented in a primary or secondary source; provide an accurate summary of how key events, ideas and/or author's perspective(s) develop over the course of the text. |
| LA.RH.11-12.3 | Evaluate various perspectives for actions or events; determine which explanation best accords with textual evidence, acknowledging where the text leaves matters uncertain. |
| LA.RH.11-12.4 | Determine the meaning of words and phrases as they are used in a text, including analyzing how an author uses and refines the meaning of a key term over the course of a text (e.g., how Madison defines faction in Federalist No. 10). |
| LA.RH.11-12.6 | Evaluate authors' differing perspectives on the same historical event or issue by assessing the authors' claims, reasoning, and evidence. |

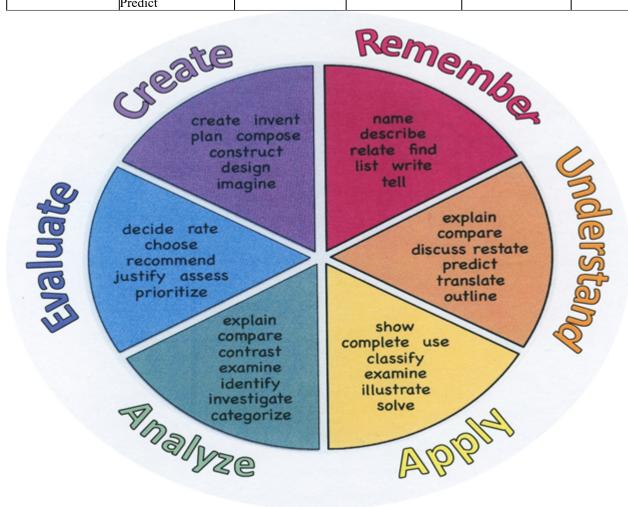
Learning Objectives

| Students | xx/111 1 | sa ahl | a to |
|----------|----------|--------|------|
| Students | WIIII | e anı | e 10 |

- 1. Develop flowchart, navigational blueprints and schema.
- 2. Create sample design showing placement of buttons/navigational graphics and suggested color scheme.
- 3. Develop storyboards.
- 4. Demonstrate knowledge of available graphics, video, motion graphics, web software programs.
- 5. Identify how different user agents (browsers, devices) affect the digital communication product.
- 6. Identify, utilize and create reusable components.

| Remember | Understand | Apply | Analyze | Evaluate | Create |
|----------|---------------|------------|---------------|-----------|-------------|
| Choose | Classify | Choose | Categorize | Appraise | Combine |
| Describe | Defend | Dramatize | Classify | Judge | Compose |
| Define | Demonstrate | Explain | Compare | Criticize | Construct |
| Label | Distinguish | Generalize | Differentiate | Defend | Design |
| List | Explain | Judge | Distinguish | Compare | Develop |
| Locate | Express | Organize | Identify | Assess | Formulate |
| Match | Extend | Paint | Infer | Conclude | Hypothesize |
| Memorize | Give Examples | Prepare | Point out | Contrast | Invent |
| Name | Illustrate | Produce | Select | Critique | Make |
| Omit | Indicate | Select | Subdivide | Determine | Originate |
| Recite | Interrelate | Show | Survey | Grade | Organize |
| Select | Interpret | Sketch | Arrange | Justify | Plan |
| State | Infer | Solve | Breakdown | Measure | Produce |
| Count | Match | Use | Combine | Rank | Role Play |
| Draw | Paraphrase | Add | Detect | Rate | Drive |
| Outline | Represent | Calculate | Diagram | Support | Devise |
| Point | Restate | Change | Discriminate | Test | Generate |
| Quote | Rewrite | Classify | Illustrate | | Integrate |
| Recall | Select | Complete | Outline | | Prescribe |

| Recognize | Show | Compute | Point out | Propose |
|-----------|-------------|-------------|-----------|-------------|
| Repeat | Summarize | Discover | Separate | Reconstruct |
| Reproduce | Tell | Divide | | Revise |
| | Translate | Examine | | Rewrite |
| | Associate | Graph | | Transform |
| | Compute | Interpolate | | |
| | Convert | Manipulate | | |
| | Discuss | Modify | | |
| | Estimate | Operate | | |
| | Extrapolate | Subtract | | |
| | Generalize | | | |
| | Predict | | | |



Suggested Activities & Best Practices

Students will be given handouts on a step by step process of how to use the dashboard of a website, coding site for educational game, and drag/drop and language process.

| Students will update sites on a weekly basis with computer and smart objects software |
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| -Students will be given hands on quizzes as well as written quizzes that will be used to enhance student |
| knowledge which will be based on the running of a website through dashboard and other platform-benchmark assessments |
| -Students will compare and contrast different website software to match which program is best for which type of website-alternate assessment |
| -Unit test-summative assessment |
| -Define-formative assessment |
| Admit Tickets |
| Anticipation Guide |
| Common Benchmarks |
| Compare & Contrast |
| Create a Multimedia Poster |
| • DBQ's |
| • Define |
| |

• Evaluate

Exit TicketsExplaining

Illustration

• Journals

Evaluation rubrics

Fist- to-Five or Thumb-Ometer

KWL Chart Learning Center Activities Multimedia Reports Newspaper Headline Outline **Question Stems** Quickwrite Quizzes • Red Light, Green Light Self- assessments Socratic Seminar • Study Guide Surveys **Teacher Observation Checklist** • Think, Pair, Share • Think, Write, Pair, Share • Top 10 List Unit review/Test prep Unit tests Web-Based Assessments • Written Reports **Primary Resources & Materials** Google sharing documents for class projects Youtube Video Channels for website and platform usage

Wix.com dashboard platform and slides with information regarding process

| Web software tutorials for projects |
|---|
| Website add-ons for all platforms |
| Online videos guidlines for Wix.com/Google Sites, and software development |
| |
| |
| Technology Infusion |
| Students will use computer, computer hardware, SmartBoard, Internet, Google Accounts, Drag and Drop Code Programs, Wix.com Account, Website Builder and PhotoShop for use to complete following projects-Wix.com Website, Scratch.MIT, and Google Sites |

Win 8.1 Apps/Tools Pedagogy Wheel **Podcasts** Photostory 3 Kid Story Builder Music Maker Jam Paint A Story Office 365 MS PowerPoint **Activities** Stack 'Em Up Blog Journal NgSquared Numbers Diagraming Physamajig Bing Search Documenting Mind mapping Xylophone 8 Commenting Action Verbs Word processing Recognise Social Networkin Describe Identify Recounting Design Construct Infer Retrieve Wikipedia Match Locate Skydrive List Manipulate Rate Lync Drawing Blogging Demo Use Opinion SkyMap Teach Record Diagraming Commenting Critique Evaluate Animating Voting Skype Share Draw Collaborate Journals Surveys Office 365 Simulate Assess Debate Quizzes Photography Puzzle Touch Survey Justify Create Deduce Movie Making Peer assessment Sequence Differentiate Construct Prioritise Easy QR Music Making Self Assessment Memorylage Examine Story Telling Debating Contrast Compare Scrapbooks Life Moments Collaging Outline Word Cloud Maker Graphing Voting Mindmapping Reading comprehension Peer Assessment Judging Spreadsheets Surveying Summarising Listening Mapping Comparing Where's Waldo? 830Nor365 MS Excel Office 365 Ted Talks Flipboard Nova Mindmapping Record Voice Pen

Alignment to 21st Century Skills & Technology

| CRP.K-12.CRP1.1 | Career-ready individuals understand the obligations and responsibilities of being a member of a community, and they demonstrate this understanding every day through their interactions with others. They are conscientious of the impacts of their decisions on others and the environment around them. They think about the near-term and long-term consequences of their actions and seek to act in ways that contribute to the betterment of their teams, families, community and workplace. They are reliable and consistent in going beyond the minimum expectation and in participating in activities that serve the greater good. |
|-----------------|---|
| CRP.K-12.CRP2 | Apply appropriate academic and technical skills. |
| CRP.K-12.CRP3 | Attend to personal health and financial well-being. |
| CRP.K-12.CRP4 | Communicate clearly and effectively and with reason. |
| CRP.K-12.CRP8 | Utilize critical thinking to make sense of problems and persevere in solving them. |
| CAEP.9.2.12.C.1 | Review career goals and determine steps necessary for attainment. |
| CAEP.9.2.12.C.2 | Modify Personalized Student Learning Plans to support declared career goals. |
| CAEP.9.2.12.C.4 | Analyze how economic conditions and societal changes influence employment trends and future education. |
| CAEP.9.2.12.C.5 | Research career opportunities in the United States and abroad that require knowledge of world languages and diverse cultures. |
| CAEP.9.2.12.C.7 | Examine the professional, legal, and ethical responsibilities for both employers and employees in the global workplace. |

21st Century Skills/Interdisciplinary Themes

Upon completion of this section, please remove all remaining descriptions, notes, outlines, examples and/or illustrations that are not needed or used.

Please list only the 21st Century/Interdisciplinary Themes that will be incorporated into this unit.

- Communication and Collaboration
- Creativity and Innovation
- · Critical thinking and Problem Solving
- ICT (Information, Communications and Technology) Literacy
- Information Literacy
- Life and Career Skills

Media Literacy

21st Century Skills

Upon completion of this section, please remove all remaining descriptions, notes, outlines, examples and/or illustrations that are not needed or used.

Please list only the 21st Century Skills that will be incorporated into this unit.

- Civic Literacy
- Environmental Literacy
- Financial, Economic, Business and Entrepreneurial Literacy
- Global Awareness
- Health Literacy

Differentiation

- -Students will work in small groups to complete review of all websites and software activities
- -A video/oral presentation will be created and uploaded onto google classroom based on how to use dashboard in Wix.com through different platforms of software use

Differentiations:

- Small group instruction
- Small group assignments
- Extra time to complete assignments
- Pairing oral instruction with visuals
- Repeat directions
- Use manipulatives
- Center-based instruction
- Token economy
- Study guides
- Teacher reads assessments allowed
- Scheduled breaks
- Rephrase written directions
- Multisensory approaches
- Additional time

- Preview vocabulary
- Preview content & concepts
- Story guides
- Behavior management plan
- Highlight text
- Student(s) work with assigned partner
- Visual presentation
- Assistive technology
- Auditory presentations
- Large print edition
- Dictation to scribe
- Small group setting

Hi-Prep Differentiations:

- Alternative formative and summative assessments
- Choice boards
- Games and tournaments
- Group investigations
- Guided Reading
- Independent research and projects
- Interest groups
- Learning contracts
- Leveled rubrics
- Literature circles
- Multiple intelligence options
- Multiple texts
- Personal agendas
- Project-based learning
- Problem-based learning
- Stations/centers
- Think-Tac-Toes
- Tiered activities/assignments
- Tiered products
- Varying organizers for instructions

Lo-Prep Differentiations

- Choice of books or activities
- Cubing activities
- Exploration by interest
- Flexible grouping
- Goal setting with students
- Jigsaw
- Mini workshops to re-teach or extend skills
- Open-ended activities
- Think-Pair-Share
- Reading buddies
- Varied journal prompts
- Varied supplemental materials

Special Education Learning (IEP's & 504's)

- -Students will be given additional time to understand the process of coding and software creation
- -Printed copy of notes for all add-ons and projects with list of software for computers

- printed copy of board work/notes provided
- · additional time for skill mastery
- · assistive technology
- · behavior management plan
- Center-Based Instruction
- check work frequently for understanding
- · computer or electronic device utilizes
- extended time on tests/ quizzes
- have student repeat directions to check for understanding
- · highlighted text visual presentation
- modified assignment format
- modified test content
- modified test format
- · modified test length
- multi-sensory presentation
- · multiple test sessions
- · preferential seating
- preview of content, concepts, and vocabulary
- Provide modifications as dictated in the student's IEP/504 plan
- reduced/shortened reading assignments
- · Reduced/shortened written assignments
- secure attention before giving instruction/directions
- shortened assignments
- · student working with an assigned partner

- · teacher initiated weekly assignment sheet
- · Use open book, study guides, test prototypes

English Language Learning (ELL)

- -Student will be assisted by peers, fluent in native language to understand all parts and pages of a website
- -Students will be allowed to correct all errors until students become proficient in the use of dashboard for the website

- teaching key aspects of a topic. Eliminate nonessential information
- · using videos, illustrations, pictures, and drawings to explain or clarif
- allowing products (projects, timelines, demonstrations, models, drawings, dioramas, poster boards, charts, graphs, slide shows, videos, etc.) to demonstrate student's learning;
- allowing students to correct errors (looking for understanding)
- allowing the use of note cards or open-book during testing
- decreasing the amount of workpresented or required
- having peers take notes or providing a copy of the teacher's notes
- modifying tests to reflect selected objectives
- providing study guides
- · reducing or omitting lengthy outside reading assignments
- · reducing the number of answer choices on a multiple choice test
- tutoring by peers
- using computer word processing spell check and grammar check features
- using true/false, matching, or fill in the blank tests in lieu of essay tests

At Risk

- -Students will be given option to use illustrations or video lessons for software builder
- -Students will select their own website idea for the creation process and dashboard controls
- allowing students to correct errors (looking for understanding)
- teaching key aspects of a topic. Eliminate nonessential information
- allowing products (projects, timelines, demonstrations, models, drawings, dioramas, poster boards,

charts, graphs, slide shows, videos, etc.) to demonstrate student's learning

- allowing students to select from given choices
- allowing the use of note cards or open-book during testing
- collaborating (general education teacher and specialist) to modify vocabulary, omit or modify items to reflect objectives for the student, eliminate sections of the test, and determine how the grade will be determined prior to giving the test.
- · decreasing the amount of workpresented or required
- having peers take notes or providing a copy of the teacher's notes
- marking students' correct and acceptable work, not the mistakes
- modifying tests to reflect selected objectives
- providing study guides
- · reducing or omitting lengthy outside reading assignments
- · reducing the number of answer choices on a multiple choice test
- · tutoring by peers
- using authentic assessments with real-life problem-solving
- using true/false, matching, or fill in the blank tests in lieu of essay tests
- · using videos, illustrations, pictures, and drawings to explain or clarify

Talented and Gifted Learning (T&G)

- -Students will be given an advanced list of software guidlines to complete at faster pace and will be able to choose which website topic they like
- -Students will troubleshoot any and all issues that arise when operating computer software
- Above grade level placement option for qualified students
- · Advanced problem-solving
- Allow students to work at a faster pace
- Cluster grouping
- Complete activities aligned with above grade level text using Benchmark results
- · Create a blog or social media page about their unit
- Create a plan to solve an issue presented in the class or in a text
- Debate issues with research to support arguments
- · Flexible skill grouping within a class or across grade level for rigor
- Higher order, critical & creative thinking skills, and discovery
- Multi-disciplinary unit and/or project
- Teacher-selected instructional strategies that are focused to provide challenge, engagement, and growth opportunities
- Utilize exploratory connections to higher-grade concepts
- Utilize project-based learning for greater depth of knowledge

Using the template below, please develop a Sample Lesson for the first unit only. Unit Name: NJSLS: Interdisciplinary Connection: Statement of Objective: Anticipatory Set/Do Now: Learning Activity: Student Assessment/CFU's: Materials: 21st Century Themes and Skills:

Differentiation/Modifications:

Integration of Technology: