

# Unit 7: Enhancing the CHS Website (Grades 10-12)

Content Area: **Computer Science**  
Course(s):  
Time Period: **Marking Period 4**  
Length: **3-4 Weeks**  
Status: **Published**

## Summary

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**Introduction:** Students will enhance the CHS Website by updating existing pages or by developing additions to the site. Students will analyze data to determine adjustment needs on the high school's site. They will also be tasked with maintaining various sections of the site, which will require them to communicate not only with each other, but with other members of the school community.

### Revision Date: 10/2021

MA.K-12.3	Construct viable arguments and critique the reasoning of others.
MA.K-12.5	Use appropriate tools strategically.
MA.K-12.7	Look for and make use of structure.
LA.K-12.NJSLSA.SL5	Make strategic use of digital media and visual displays of data to express information and enhance understanding of presentations.
LA.K-12.NJSLSA.L1	Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.
LA.K-12.NJSLSA.L2	Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.
CS.9-12.8.1.12.AP.5	Decompose problems into smaller components through systematic analysis, using constructs such as procedures, modules, and/or objects.
CS.9-12.8.1.12.DA.6	Create and refine computational models to better represent the relationships among different elements of data collected from a phenomenon or process.
CS.K-12.1.a	Include the unique perspectives of others and reflect on one's own perspectives when designing and developing computational products.
CS.K-12.1.b	Address the needs of diverse end users during the design process to produce artifacts with broad accessibility and usability.
CS.K-12.2.a	Cultivate working relationships with individuals possessing diverse perspectives, skills, and personalities.
CS.K-12.2.b	Create team norms, expectations, and equitable workloads to increase efficiency and effectiveness.
CS.K-12.2.c	Solicit and incorporate feedback from, and provide constructive feedback to, team members and other stakeholders.
CS.K-12.4.b	Evaluate existing technological functionalities and incorporate them into new designs.
CS.K-12.5.c	Modify an existing artifact to improve or customize it.
WRK.K-12.P.4	Demonstrate creativity and innovation.
WRK.K-12.P.5	Utilize critical thinking to make sense of problems and persevere in solving them.
WRK.K-12.P.6	Model integrity, ethical leadership and effective management.
TECH.K-12.P.4	Demonstrate creativity and innovation.
TECH.K-12.P.6	Model integrity, ethical leadership and effective management.
TECH.K-12.P.8	Use technology to enhance productivity increase collaboration and communicate effectively.

## **Essential Questions/Enduring Understandings**

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- How do you analyze data to make decisions about website development?
- Who is involved in the development of a website?
- Building on the work of others is a common, but difficult, task.
- Knowing how web design code works is an important aspect of designing websites.

## **Objectives**

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### Students Will Know

- how to utilize advanced web design topics such as:
  - JavaScript countdowns
  - mouseovers
  - formulas
  - clickable layers
  - menus
  - educational games
  - Actionscripts
  - iFrames
  - Animated Gifs
  - Multimedia embedding

### Students Will be Skilled At

- containing content within parameters developed by someone else.
- using a template designed by someone else.

## **Learning Plan**

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- Review data about user viewership from Google Analytics.
- Develop a list of adjustments to be made based on the data.
- Preview the essential questions and connect to learning throughout the unit.
- Research the club section of the school's website.
- Obtain and adjust content to reflect current times/advisors/clubs.
- Research 'life at CHS'.
- Develop a webpage from the CHS template that describes life at CHS using an advanced web design topic.

## Assessment

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### Assessments

- Formative: Daily assessments using examples from class notes and CodeHS.com, AP Classroom/Albert Checks for Understanding
- Summative: Teacher-created assessments/projects and CodeHS Computer Science Projects, AP Classroom/Albert Unit Assessments
- Benchmark: Check for understanding benchmark assessments on CodeHS, AP Classroom/Albert/Khan Academy Diagnostics
- Alternative Assessments: Student-centered activities such as a doorbell coding project, game design projects, and other activities listed below:
  - Create a website-based resume.
  - Present the resume in a mock interview based setting.
  - Receive feedback from rubrics and comments from students/teachers/administration.
  - Make adjustments and complete self assessment.
  - Answer the essential questions.
- develop a webpage based on a template for various possible extensions of the CHS website. A rubric will be utilized in assessing understanding.
- develop and update club pages for the CHS website.
- answer the essential questions.

## Materials

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- Core instructional materials: [Core Book List](#)

Supplemental materials:

- District Approved Textbook
- HTML5 Resources
- CSS3 Resources
- Internet Access
- Khan Academy
- Codeacademy
- Codehs
- Computers

# Integrated Accommodation and Modifications

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[Possible accommodations/modification for Web Design 2](#)