Unit 3: Design & Hosting a Website (Grades 10-12)

Content Area: **Computer Science**
Course(s):
Time Period: **Marking Period 1**
Length: **10-12 Weeks**
Status: **Published**

Summary

Introduction: Students will use the hosting service provider selected in the previous unit to put their websites online. Topics for their websites will be student selected but approved by the teacher before being placed online.

Revision Date: July 2026

Information Literacy: This unit challenges students to locate, evaluate, and use information effectively. Information literacy includes, but is not limited to, digital, visual, media, textual, and technological literacy. Lessons may include the research process and how information is created and produced; critical thinking and using information resources; research methods, including the difference between primary and secondary sources; the difference between facts, points of view, and opinions, accessing peer-reviewed print and digital library resources; the economic, legal, social, and ethical issues surrounding the use of information.

1	Make sense of problems and persevere in solving them
CS	Computing Systems
1.a	Include the unique perspectives of others and reflect on one's own perspectives when designing and developing computational products.
L.SS.11–12.1	Demonstrate command of the system and structure of the English language when writing or speaking.
P.4	Demonstrate creativity and innovation.
P.5	Utilize critical thinking to make sense of problems and persevere in solving them.
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L.KL.11–12.2	Apply knowledge of language to understand how language functions in different contexts, to make effective choices for meaning or style, and to comprehend more fully when reading or listening.
9.4.12.CI.3	Investigate new challenges and opportunities for personal growth, advancement, and transition (e.g., 2.1.12.PGD.1).
P.8	Use technology to enhance productivity increase collaboration and communicate effectively.
2.c	Solicit and incorporate feedback from, and provide constructive feedback to, team members and other stakeholders.
P.9	Work productively in teams while using cultural/global competence.
6	Attend to precision
6.b	Identify and fix errors using a systematic process.
AP	Algorithms & Programming

Essential Questions/Enduring Understandings

- How do you host a website online?
- What are the qualities to look for in a respectable website?
- Maintaining a website is a constant task.
- Planning ahead will dramatically reduce the amount of work that needs to be done at a later time.
- Files take time to be refreshed online.

Objectives

Students Will Know

- how to use a FTP (File Transfer Protocol) program to upload files.

Students Will be Skilled At

- planning out and following through with the design, development, and implementation of a live website.

Learning Plan

- Preview the essential questions and connect to learning throughout the unit.
- Develop a plan for a topic, weekly updates and criteria on how to be assessed in the form of a contract.
- Create a layout template for the site to promote consistency, navigation included.
- Sign up for the hosting service selected in the previous unit.
- Upload site online.
- Monitor and update the website.

Assessment

- 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.

Materials

- 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

Possible accommodations/modification for Web Design 2