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: 10/2021

MA.K-12.1	Make sense of problems and persevere in solving them.
MA.K-12.3	Construct viable arguments and critique the reasoning of others.
MA.K-12.6	Attend to precision.
LA.K-12.NJSLSA.L6	Acquire and use accurately a range of general academic and domain-specific words and phrases sufficient for reading, writing, speaking, and listening at the college and career readiness level; demonstrate independence in gathering vocabulary knowledge when encountering an unknown term important to comprehension or expression.
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-12.2.c	Solicit and incorporate feedback from, and provide constructive feedback to, team members and other stakeholders.
CS.K-12.6.b	Identify and fix errors using a systematic process.
WRK.K-12.P.5	Utilize critical thinking to make sense of problems and persevere in solving them.
TECH.9.4.12.CI.3	Investigate new challenges and opportunities for personal growth, advancement, and transition (e.g., 2.1.12.PGD.1).
TECH.K-12.P.4	Demonstrate creativity and innovation.

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:

  o Create a website-based resume.
  o Present the resume in a mock interview based setting.
  o Receive feedback from rubrics and comments from students/teachers/administration.
  o Make adjustments and complete self assessment.
  o Answer the essential questions.

Materials

- Core instructional materials: Core Book List

Supplemental materials:

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

Integrated Accommodation and Modifications

Possible accommodations/modification for Web Design 2