

Unit 2: Hosting Research (Grades 10-12)

Content Area: **Computer Science**
Course(s):
Time Period: **Marking Period 1**
Length: **1-2 Weeks**
Status: **Published**

Summary

Introduction: Students will research how websites are hosted online and the companies that provide these services. They will compare free services in terms of bandwidth, disk space, data transfer, support, uptime and user reviews. As a class, students will rank hosting services to be used in the following unit.

Revision Date: 10/2021

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|---------------------|--|
| MA.K-12.3 | Construct viable arguments and critique the reasoning of others. |
| MA.K-12.6 | Attend to precision. |
| LA.K-12.NJSLSA.R9 | Analyze and reflect on how two or more texts address similar themes or topics in order to build knowledge or to compare the approaches the authors take. |
| LA.K-12.NJSLSA.SL3 | Evaluate a speaker's point of view, reasoning, and use of evidence and rhetoric. |
| LA.K-12.NJSLSA.SL4 | Present information, findings, and supporting evidence such that listeners can follow the line of reasoning and the organization, development, and style are appropriate to task, purpose, and audience. |
| CS.9-12.8.1.12.DA.2 | Describe the trade-offs in how and where data is organized and stored. |
| TECH.9.4.12.IML.3 | Analyze data using tools and models to make valid and reliable claims, or to determine optimal design solutions (e.g., S-ID.B.6a., 8.1.12.DA.5, 7.1.IH.IPRET.8). Choices individuals make about how and where data is organized and stored affects cost, speed, reliability, accessibility, privacy, and integrity. |

Essential Questions/Enduring Understandings

- How are websites hosted online?
- There is a reason that these services are free.
- Nothing is free. If you do not see the product, you are the product.

Objectives

Students Will Know

- vocabulary and programs that deals with putting a website online, including but not limited to:
 - Bandwidth
 - Client
 - Disk Space
 - Download
 - File Transfer Protocol (FTP)
 - Host
 - Server
 - Support

- Time to Live (TTL)
- Top-Level Domain (TLD)
- Up Time
- Upload
- Filezilla
- Dreamweaver
- WS_FTP

Students Will be Skilled At

- Comparing very similar services

Learning Plan

- Preview the essential questions and connect to learning throughout the unit.
- Class discussion on the vocabulary of putting websites online.
- Research on free services that host websites.
- Comparison of services individually.
- Comparison of services as a class.
- Selection of top 3-5 hosting services that we will be using for the next project.

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
- Codecademy
- Codehs
- Computers

Integrated Accommodation and Modifications

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