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| **TEXAS CTE LESSON PLAN**  [www.txcte.org](http://www.txcte.org) | |
| **Lesson Identification and TEKS Addressed** | |
| **Career Cluster** | Information Technology |
| **Course Name** | Web Technologies |
| **Lesson/Unit Title** | Web Administration |
| **TEKS Student Expectations** | **130.308. (c) Knowledge and Skills**  (3) The student demonstrates knowledge and appropriate use of hardware, software, and connectivity technologies.  (C) The student is expected to identify current and future Internet protocols such as hypertext transfer protocol, file transfer protocol, telnet, and email  (7) The student demonstrates and employs knowledge of Internet programming strategies to develop and maintain web applications.  (E) The student is expected to explain client-server applications and describe the process of a client-server transaction  (8) The student employs knowledge of web administration to develop and maintain web applications.  (C) The student is expected to identify hardware and software requirements for web servers  (D) The student is expected to evaluate server providers  (E) The student is expected to describe the process of establishing a domain name |
| **Basic Direct Teach Lesson**  (Includes Special Education Modifications/Accommodations and  one English Language Proficiency Standards (ELPS) Strategy) | |
| **Instructional Objectives** | **Performance Objective:**  Following the completion of this lesson, students will understand the process of developing/building and uploading a website.  **Specific Objectives:**   * Students will be introduced to the TCP/IP process and how information travels from a web server to the client computer. * Students will understand the process involved in acquiring a domain name for a website. * Students will know about the different operating systems and software requirements. * Students will participate in the process of selecting a domain name and web hosting; they will know what to look for when selecting a web site host. * Students will be exposed to the process of uploading files to a web server. |
| **Rationale** | It is essential in today’s evolving technical society, that students know the process of developing/building and uploading a website. |
| **Duration of Lesson** | 10 hours |
| **Word Wall/Key Vocabulary**  *(ELPS c1a, c, f; c2b; c3a, b, d; c4c; c5b) PDAS II (5)* |  |
| **Materials/Specialized Equipment Needed** | * Web Admin Worksheet/Key * Web Admin Simulation Exercise * Web Admin Quiz/Key * Students will need computers with Internet Access |
| **Anticipatory Set**  (May include pre-assessment for prior knowledge) | |  | | --- | | **ASK:** What do you think a website designer’s job consists of?  Most likely they will answer, “designing a website.” If so, ask who would be expected to acquire the domain name, web hosting, and transfer the website to the web server to get the site live online.  Explain to students that the building of websites is only one part of the Webmaster’s job. They are also expected to know the entire process of getting their customers’ websites up and running on the Internet. | |  | |
| **Direct Instruction \*** | 1. Protocols 2. What are protocols and TCP/IP? 3. Common protocols used online 4. How information is transferred 5. Acquiring a Domain Name 6. What is Domain Name Registration? 7. Process of Registering a domain 8. Students practice identifying an available domain name. 9. Website Hosting 10. Function of Operating Systems 11. Web Server Operating Systems 12. What to consider when selecting web hosting services 13. Students lookup pricing information for webhosting 14. Personal Web Servers   i. required software  ii. optional software   1. Getting Your Site Online 2. Required Software- FTP Client 3. Information needed to establish a connection with web server 4. FTP Client Interface 5. Uploading to the www/ public HTML folders   *Individualized Education Plan (IEP) for all special education students must be followed. Examples of accommodations may include, but are not limited to:*  NONE |
| **Guided Practice \*** | Students will:   * Use the Domain Name Search Tool to find an available domain name * Look up pricing for webhosting and servicing offered   *Individualized Education Plan (IEP) for all special education students must be followed. Examples of accommodations may include, but are not limited to:*  NONE |
| **Independent Practice/Laboratory Experience/Differentiated Activities \*** | Following the lesson, students should complete the Web Administration Simulation Activity. Students will be given a scenario and must identify an appropriate available domain name. They will also select a web hosting company that meets the necessary requirements.  *Individualized Education Plan (IEP) for all special education students must be followed. Examples of accommodations may include, but are not limited to:*  NONE |
| **Lesson Closure** | |  | | --- | | Students should complete the Web Administration worksheet | |  | |
| **Summative/End of Lesson Assessment \*** | |  | | --- | | Following the lesson, students should complete the quiz over the information | | introduced. |   *Individualized Education Plan (IEP) for all special education students must be followed. Examples of accommodations may include, but are not limited to:*  NONE |
| **References/Resources/**  **Teacher Preparation** |  |
| **Additional Required Components** | |
| **English Language Proficiency Standards (ELPS) Strategies** |  |
| **College and Career Readiness Connection[[1]](#footnote-1)** |  |
| **Recommended Strategies** | |
| **Reading Strategies** |  |
| **Quotes** |  |
| **Multimedia/Visual Strategy**  **Presentation Slides + One Additional Technology Connection** |  |
| **Graphic Organizers/Handout** |  |
| **Writing Strategies**  **Journal Entries + 1 Additional Writing Strategy** |  |
| **Communication**  **90 Second Speech Topics** |  |
| **Other Essential Lesson Components** | |
| **Enrichment Activity**  (e.g., homework assignment) |  |
| **Family/Community Connection** |  |
| **CTSO connection(s)** | SkillsUSA  Technology Student Association (TSA) |
| **Service Learning Projects** |  |
| **Lesson Notes** |  |

1. Visit the Texas College and Career Readiness Standards at <http://www.thecb.state.tx.us/collegereadiness/CRS.pdf>, Texas Higher Education Coordinating Board (THECB), 2009. [↑](#footnote-ref-1)