|  |  |
| --- | --- |
| **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** | Website Forms/Data Acquisition |
| **TEKS Student Expectations** | **130.308. (c) Knowledge and Skills**  (7) The student demonstrates and employs knowledge of Internet programming strategies to develop and maintain web applications.  (A) The student is expected to explain the importance of Internet programming standards  (C) The student is expected to use standard applications to develop web applications such as text-based editing programs, word processors, and web authoring software  (J) The student is expected to explain the process to construct secure transaction interfaces from the web server to the customer |
| **Basic Direct Teach Lesson**  (Includes Special Education Modifications/Accommodations and  one English Language Proficiency Standards (ELPS) Strategy) | |
| **Instructional Objectives** | * Students will understand how information is collected online. * Students will be able to create forms on their web pages. * Students will be able to select the appropriate form field based on the type of information being collected.   **Performance Objective:**  Upon completion of the lesson, students will be able to collect data from websites and send the data to the appropriate script for processing. |
| **Rationale** | It is critical that students can collect data from websites and send the data to appropriate scripts to be processed. |
| **Duration of Lesson** | 2 hours |
| **Word Wall/Key Vocabulary**  *(ELPS c1a, c, f; c2b; c3a, b, d; c4c; c5b) PDAS II (5)* |  |
| **Materials/Specialized Equipment Needed** | **Materials Needed:**   * Presentation printed in Notes format for each student * Code sample handout printed for each student * Form Lab Exercise 1 printed for each student * Form Lab Exercise printed for each student * End of Lesson Quiz (and Quiz Key)   **Equipment Needed:**   * Digital Projector to show presentation * Individual computers with Internet access for each student |
| **Anticipatory Set**  (May include pre-assessment for prior knowledge) | Show the students a web page with a form such as a web-based email form, or a search engine site, or a site with a registration form. Discuss how giving a web site the ability to collect information from the visitor increases the usefulness and productivity of a web site substantially. |
| **Direct Instruction \*** | 1. Introduction- Show students some websites with forms and discuss how useful the ability to collect data from the visitor can be 2. Creating Forms 3. The form block and form tag 4. Collecting Data/The input tag   i. Text field  ii. password field  iii. hidden fields  iv. submit button  v. reset button  vi. radio buttons  vii. checkboxes   1. collecting Data/ The text area 2. Collecting Data/ Select Menu 3. Hand on individual practices 4. Lab Exercise I 5. Lab Exercise II 6. End of Lesson Quiz   *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 \*** | During the presentation, the students should create the forms demonstrated.The students should be provided with the Sample Code handouts. The Sample Code numbers in the presentation will correspond with the Sample Code numbers on the handout.  *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 \*** | * Lab Exercise 1 * Lab Exercise 2   *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** | Review the various types of form fields. Verbally quiz students as to which would be the most appropriate form field by stating a type of information to be collected, such as a phone number. Students should respond with a text field. Quiz them on a variety of information so that each form field is covered. |
| **Summative/End of Lesson Assessment \*** | Following the lesson students should complete the quiz over the concepts presented in the lesson.  *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** | * Content Developer Knowledge |
| **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) | |  | | --- | | Consider having students explore various form processing services and have | | students create forms with live processing. | |
| **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)