Brooklyn Emerging Leaders Academy

U1.L5 - Introduction to foundational HTML structures, terms and acronyms

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| Teacher(s) | Edwin Jaquez | Course | | Web Development | | Unit Title | [Unit 1- Career Exploration, Employability / Intro to Web Design](https://drive.google.com/open?id=1yGNRU0_k27j4bWIY5qFGA1uEiUT3ASwg8pCt3e6PChY) |
| Lesson # | 1 | Total Time | | 80 Minutes | | Dates | **B Days** |
| Objectives: | | | | | | | |
| * **Create a basic website using codepen.io [IDE] using HTML structures, tags and information.** * **Understand the history of HTML, HTML as a computer language, and the many terms commonly used by developers.** | | | | | | | |
| Assessment—Exit Ticket Questions | | | | | Student Exemplar Responses to the Exit Ticket Questions | | |
| Students will copy and paste the link to their very first website using Google Forms shared via **Google Classroom**, and answer the questions below (via the same form)   1. What is something you’re excited about, or plan on doing to your website in the future? 2. What questions do you have that were not answered in class. If no questions, what are you looking forward to learning? | | | | | This exit ticket requires students to submit a link to their website.   * This will be graded based on submission & not the quality of the webpage. I must have access to their site for full points. * Question responses will vary based on student experience and inquiry. | | |

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| Lesson Methods | |
| Activating Strategy/Hook | Time: 10 minutes |
| **Do Now:**   1. Open your laptops    1. Answer the questions below;       1. Describe your strengths as a student in 2-3 sentences. What makes you a great student, and why? Provide examples.       2. Tell me about a time when you made a plan to accomplish a goal. What were some challenges you faced in order to stay as close as possible to the plan, in order to reach your goal?   **Do Now Review:**   1. Have 2-3 students share responses whole group. 2. Align Do Now to the lesson by making connections to goal-setting, deadlines & potential outcomes. | |
| Lesson Lecture | Time: 35 Mins |
| [**[Slides to This Lesson]**](https://docs.google.com/presentation/d/1u_gCvYRQRRIarOayF3R0WF5DtVL7dNxQ3PAF2Lv3TOA/edit#slide=id.g33ee9db878_0_0)  **Introduction to HTML [ 8 minutes ]**   1. **What is HTML?**     1. Hypertext Markup Language (HTML) is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript.    2. HTML is a markup language that web browsers use to interpret and compose text, images, and other material into visual or audible web pages.    3. Was Developed in 1989 as HTML, but proposed and created by physicist Tim Berners-Lee. 2. **Comparisons**    1. HTML is similar to a word document, which can also similarly contain images and text, with markup in digital form.   **Introduction to IDE’s: [ 7 minutes ]**   * This is our first day of real programming. Since we will first need to understand the front-end development process, and have had a bit of experience designing websites, this lesson will build on those skills by transferring them to the computer using Code. * In order for us to code, we have to set up our development environment. This environment may include one or more websites that we use as a guide or tool to implement our code, and see the end-result. * This is also known as **IDE** or **Integrated Development Environment.** IDE is a software application that provides comprehensive facilities to computer programmers for software development.   + An IDE normally consists of at least a source code editor, build automation tools, and a debugger.   \*\*\* We will be using a web-based IDE, via [www.codepen.io](http://www.codepen.io)  **Sign-up to our IDE: [ 15 minutes ]**  *Step-by-step using* [***www.codepen.io***](http://www.codepen.io)  **[ Live Demo ] - 5 minutes**  **Steps**   1. **Go to** [**www.codepen.io**](http://www.codepen.io) 2. **Click on [ Sign-Up ]** 3. **Click [ Sign Up With Email ] - Use School-given Email address.**    1. *Students should not attempt to log-in using any other means. Using email will allow for students to reset, verify and confirm their accounts once registered.* 4. **Click [ Sign In ]** 5. **Bookmark Codepen to their bookmarks tab by clicking the star on the chrome search bar**   **Advise students that they will need to log-on in the future using their email address.**  **Setting up and Navigating Codepen:**  **[Live Demo] - 10 minutes**   1. **Click on the codepen avatar and navigate to the profile section -** 2. **Have students complete the profile section to include their Names, Location [Brooklyn, NY], and a short Bio - I am a Computer Science Student - learning code via Web Development.** 3. **Students should not go to any other section of their profile. Doing so may block certain features from becoming available, and may hinder the possibility of the teacher having access to their projects.**    1. **Student accounts are all private by default.**    2. **Projects, or Pens, are also private by default, unless the user shares them**       1. **Students will have to share their projects with the teacher, in which case they will have to make the individual projects public for review.** | |
| Work Period | Time: 40 mins |
| **Activity #1 :**  **[I do, You Do, We Do] - 30 Minutes**   * Now that students are signed in, and have accounts, we’re ready to set-up and walk through our very first webpage. This webpage, will eventually be part of our website. Remember, a website is the entire site, or location of multiple web pages.   + This page will include     - HTML Structure       * Head       * Body     - A Heading     - A Paragraph       * If students cannot come up with a paragraph worth of text about themselves, show them the Lorem Ipsum placeholder.         + Web developers traditionally use lorem ipsum text as placeholder text. The 'lorem ipsum' text is randomly scraped from a famous passage by Cicero of Ancient Rome.         + Lorem ipsum text has been used as placeholder text by typesetters since the 16th century, and this tradition continues on the web.     - Lists & List Items       * Ordered List       * Unordered List         + Both have list items     - An Image       * Sized to 200px x 200px (px=pixels - the dots of a screen that make up a resolution)         + For pixels, explain the difference between 720p, 1080p & 4K HDTV’s * Most HTML elements have an opening tag and a closing tag.   + Opening tags look like this: <h1>   + Closing tags look like this: </h1>     - The only difference between opening and closing tags is the forward slash after the opening bracket of a closing tag. * Commenting an HTML document * Deleting elements   Basic Debugging Tips & Tricks   * CMD + C = Copy * CMD + V = Paste * CMD + X = Cut * CMD + Z = Undo (**Our Best Friend**)   **The last [ 10 minutes ]**   * Have students add 3 more images, sized to 200px x 200px. * Create another list. This list may include favorite brands, artists, food, etc.. | |
| Closing/Exit Ticket | Time: 5 minutes |
| Students will copy and paste the link to their very first website using Google Forms shared via **Google Classroom**, and answer the questions below (via the same form)   1. What is something you’re excited about, or plan on doing to your website in the future? 2. What questions do you have that were not answered in class. If no questions, what are you looking forward to learning?   **[Link to Google Form]** | |