**Got it! Here's how you can explain CSS to students without covering CSS3 features.**

**📖 Complete CSS Guide for Students**

**1️⃣ What is CSS?**

**CSS (Cascading Style Sheets) is used to style and format HTML elements. It defines how web pages look (colors, fonts, layouts, spacing, etc.).**

**Why Use CSS?**

**✔️ Separates content from design  
✔️ Makes websites visually appealing  
✔️ Improves maintainability & reusability  
✔️ Creates consistent styles across multiple pages**

**2️⃣ CSS Syntax**

**CSS uses selectors to target elements and properties to define their appearance.**

**📌 Basic Syntax:**

**selector {**

**property: value;**

**}**

**✅ Example:**

**p {**

**color: blue;**

**font-size: 16px;**

**}**

**Types of CSS:**

**1️⃣ Inline CSS – Applied directly inside an HTML element  
2️⃣ Internal CSS – Written inside <style> in the HTML <head>  
3️⃣ External CSS – Saved in a .css file (Best Practice)**

**✅ Example of External CSS (style.css):**

**body {**

**background-color: lightgray;**

**}**

**<link rel="stylesheet" href="style.css">**

**3️⃣ CSS Selectors (How to Target Elements)**

**Basic Selectors**

* **element → Selects all elements of that type (h1, p, div)**
* **.class → Selects elements with a specific class**
* **#id → Selects an element with a unique ID**

**📌 Example:**

**h1 { color: red; }**

**.myClass { font-size: 20px; }**

**#uniqueId { background: yellow; }**

**Grouping & Nested Selectors**

**✅ Select multiple elements:**

**h1, h2, h3 {**

**color: darkblue;**

**}**

**✅ Select elements inside another element:**

**div p {**

**font-weight: bold;**

**}**

**4️⃣ CSS Box Model**

**Each element is structured like a box with:**

**✅ Margin – Space outside the element  
✅ Border – Edge around the element  
✅ Padding – Space inside the element  
✅ Content – The text, image, etc.**

**📌 Example:**

**div {**

**width: 200px;**

**padding: 10px;**

**border: 2px solid black;**

**margin: 20px;**

**}**

**5️⃣ CSS Layout & Positioning**

**Position Property**

| **Value** | **Effect** |
| --- | --- |
| **static** | **Default positioning** |
| **relative** | **Moves relative to its normal position** |
| **absolute** | **Moves relative to the nearest positioned ancestor** |
| **fixed** | **Stays fixed on screen** |

**📌 Example:**

**.fixed-header {**

**position: fixed;**

**top: 0;**

**width: 100%;**

**background: black;**

**color: white;**

**}**

**Display Property**

| **Value** | **Effect** |
| --- | --- |
| **block** | **Takes full width (e.g., <div>, <p>)** |
| **inline** | **Stays on the same line (e.g., <span>)** |
| **inline-block** | **Like inline, but supports width & height** |
| **none** | **Hides the element** |

**📌 Example:**

**span {**

**display: inline-block;**

**width: 100px;**

**height: 50px;**

**}**

**6️⃣ CSS Typography (Fonts & Text)**

**📌 Common Font Properties:**

**p {**

**font-family: Arial, sans-serif;**

**font-size: 16px;**

**font-weight: bold;**

**color: darkblue;**

**text-align: center;**

**text-decoration: underline;**

**letter-spacing: 2px;**

**}**

**✅ Web Safe Fonts: Arial, Helvetica, Georgia, Verdana  
✅ Text Alignment: left | right | center | justify  
✅ Font Weight: normal | bold | lighter | bolder**

**7️⃣ CSS Colors & Backgrounds**

**📌 Ways to Set Colors:**

**p {**

**color: red; /\* Name \*/**

**color: #ff0000; /\* Hex \*/**

**color: rgb(255, 0, 0); /\* RGB \*/**

**}**

**📌 Background Styling:**

**body {**

**background-color: lightgray;**

**background-image: url("bg.jpg");**

**background-repeat: no-repeat;**

**background-size: cover;**

**}**

**8️⃣ CSS Lists & Tables**

**List Styling**

**ul {**

**list-style-type: square;**

**}**

**Table Styling**

**table {**

**border-collapse: collapse;**

**width: 100%;**

**}**

**th, td {**

**border: 1px solid black;**

**padding: 10px;**

**}**

**9️⃣ CSS Units & Measurements**

**📌 Common Units:**

| **Unit** | **Description** |
| --- | --- |
| **px** | **Pixels (fixed size)** |
| **%** | **Relative to parent element** |
| **em** | **Relative to parent font size** |
| **rem** | **Relative to root font size** |

**✅ Example:**

**p {**

**font-size: 16px;**

**width: 50%;**

**padding: 1em;**

**}**

**🔟 Responsive Design with Media Queries**

**✅ Media Query Example:**

**@media (max-width: 600px) {**

**body {**

**background: yellow;**

**}**

**}**

**✅ Best Practices for Responsive Design: ✔️ Use % or vh/vw instead of px  
✔️ Use relative units like em, rem  
✔️ Use media queries for different screen sizes**

**Final Tips for Mastering CSS**

**✔️ Use external CSS for clean code  
✔️ Learn Box Model and Positioning  
✔️ Practice with real-world projects  
✔️ Avoid using IDs too much (prefer classes)  
✔️ Keep CSS organized and structured**

**💡 Would you like code exercises and examples for students? 😊**