

## Lesson Plan: Web Technology

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**Subject:** Computer Science

**Topic:** Web Technology

**Grade:** 8

**Duration:** 45 minutes

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### Learning Objectives

By the end of this session, students will be able to:

- Define the term Web Technology.
- Explain the basic components of web technology.
- Identify different types of websites and web applications.
- Understand the role of web technologies in daily life.

### Teaching Materials

1. Whiteboard and markers / Digital presentation (PowerPoint or Google Slides)
  2. Chart or table showing all components of web technology with visuals
  3. Video clip on the evolution of web technology (3–5 minutes)
  4. Handout/worksheet summarizing the web technology (for student reference)
  5. Computer or projector for presentation
  6. Quiz or activity sheet (for review or assessment)
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### Introduction (5 minutes)

#### Objectives

- Create interest in how websites work
- Introduce the concept of web technology

#### ICT Tools

- PowerPoint/Google Slides (title slide + an old vs. modern website's image)
- Short introductory video clip (3–5 min) on web technology

#### Activity

1. **Hook:** Show side-by-side pictures of websites with and without css and javascript:  
*"Which one do you think is more attractive?"*
2. Play the short video on web technology.

3. Briefly define web technology (time period characterized by specific technological advancements).
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## **Main Activity (30 minutes)**

### **Objectives**

- Identify basic components of web technology such as browser, server, and web languages.

### **ICT Tools**

- Presentation slides with diagrams
- Client–server interaction chart
- Whiteboard for explanations

### **Step 1: Demonstration (10 minutes)**

- What is a website and webpage
- Web browser (Chrome, Firefox)
- Web server
- Client–server model
- Basic web technologies: HTML, CSS, JavaScript
- Show simple diagrams for better understanding..

### **Step 2: Guided Practice (10 minutes)**

- Distribute worksheets with missing terms.
- Fill in keywords together such as browser, server, HTML, URL.
- Teacher explains while students complete the worksheet.

### **Step 3: Collaborative Task (10 minutes)**

- Distribute worksheets with missing terms.

- Fill in keywords together such as browser, server, HTML, URL.
  - Teacher explains while students complete the worksheet.
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### **Assessment (5 minutes)**

#### **Objectives**

- Check students' understanding of web technology
- Evaluate basic knowledge and concepts.

#### **ICT Tools**

- Online quiz platform (Kahoot/Quizizz) or printed quiz
- Whiteboard for quick recap questions

#### **Activity**

- **Quick quiz:** 5–7 MCQs and 1 short answer (e.g., “Which of the following is a markup language?”).
  - Award points to motivate participation.
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### **Closure (3 minutes)**

#### **Objectives**

- Summarize key points of the lesson.
- Encourage curiosity about future web technologies.

#### **ICT Tools**

- Slide with summary table + image of futuristic AI Web Technologies

#### **Activity**

- Ask: *"What do you think the future website might look like?"* (2–3 student answers)
  - Share teacher's closing remarks and summary slide.
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### **Back-Up Plan (If ICT tools fail)**

- Use printed charts and textbooks instead of slides.
  - Conduct oral Q&A instead of online quiz.
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- **Homework**
- Create a **poster or digital infographic** showing the web technology component, including:
  - Time period
  - Technology used
  - Example device
- Due next class; best poster will be displayed in the classroom.