



TECHNOLOGY AND LIVELIHOOD EDUCATION

ICT - COMPUTER PROGRAMMING

Grade 9 or 10

**Three-Term Budget Of Work (BOW)
for Learning Competencies**

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ICT
Grade 9 and Grade 10

Three-Term Budget Of Work
For Learning Competencies

Please note that each sector under TLE: ICT is studied for one term. This is applicable under Grades 9 and 10.

Term		
Sector	Computer Programming	
Performance Standard	The learners develop website using HTML in a safe and responsible manner.	
Content Standard	• Demonstrate an understanding of the current trends, opportunities, computer ergonomics, and HTML elements. • Demonstrate an understanding of the computer ergonomics in relation to health and risk hazards in the workplace. • Demonstrate understanding of the Hypertext Mark-up Language structure and syntax • Demonstrate an understanding of the HTML document editors. • Demonstrate an understanding of the HTML heading, paragraph, styles, and formatting. • Demonstrate an understanding of the multimedia elements in a webpage. • Demonstrate an understanding of the HTML list types and attributes. • Demonstrate an understanding of the HTML table elements and attributes. • Demonstrate an understanding of the HTML form types, attributes, and elements. • Demonstrate an understanding of the HTML links.	
Week	Learning Competency	Suggested Activities
1	• Discuss the current trends, business/career opportunities, and skills needed in Computer Programming.	• Programming Jobs Around Us ○ To help students identify current programming trends, related jobs, and

	Discuss computer ergonomics.	required skills. - Match programming trends with possible jobs and skills, then explain your group's choices. My Future Programmer Self - To allow students to reflect on programming careers and the skills needed for the future. - Create a mini poster showing your chosen programming trend, career goal, and skills to learn. Spot the Risk! Ergonomics Detective - To enable students to identify ergonomic hazards and related health risks in the workplace. - Analyze a workstation image and list ergonomic risks, health effects, and possible corrections. Build a Healthy Workstation - To demonstrate proper computer ergonomics that reduce health and safety risks. - Act out an incorrect and correct workstation setup and explain the improvements made.
2	- Distinguish HTML structure, elements, and attributes. - Utilize an HTML editor in creating HTML documents.	Build the HTML Skeleton - To help students understand the correct structure and syntax of an HTML document. - Arrange mixed HTML tags in the

		correct order and explain the function of each tag. • Fix the Broken Web Page ○ To develop students' ability to identify and correct HTML syntax errors. ○ Locate and fix errors in a given HTML code and explain the corrections. • My First Web Page ○ To enable students to use an HTML editor to create a basic HTML document. ○ Create and save a simple HTML file using an editor, then open it in a web browser. • Edit and Improve the Web Page ○ To help students practice editing and improving HTML documents using an HTML editor. ○ Open an existing HTML file, make required edits, save it, and refresh the browser to view changes.
3	• Apply heading, paragraph, styles and formatting elements in HTML document.	• Design My Info Page ○ To apply HTML headings, paragraphs, styles, and text formatting in creating a simple informational webpage. ○ Using an HTML editor, create a one-page document with headings, paragraphs, and formatted text (bold, italic, color, or size) based on a given topic.

		• Fix and Style the Web Page ◦ To demonstrate understanding of HTML formatting and styles by editing and improving an existing webpage. ◦ Open the provided HTML file and enhance it by correcting headings, organizing paragraphs, and applying proper text styles and formatting.
4	• Embed multimedia elements in a webpage. • Perform adding list in a webpage. • Create a table in a webpage.	• Add Media to My Web Page ◦ To enable students to embed images, audio, or video into an HTML webpage. ◦ Using an HTML editor, insert at least one image and one audio or video file into a given webpage and display them correctly in a browser. • Multimedia Fix and Improve ◦ To demonstrate understanding of multimedia embedding by correcting and improving media elements in an HTML document. ◦ Open the provided HTML file, fix broken or missing multimedia elements, and enhance the page by properly embedding images or videos. • Create My List Page ◦ To enable students to use ordered and unordered lists in an HTML webpage. ◦ Using an HTML editor, create a webpage that includes at least one ordered list and one unordered list

		about a given topic. • Fix and Organize the Lists ◦ To demonstrate understanding of HTML lists by correcting and organizing list elements in a webpage. ◦ Open the provided HTML file, fix incorrect list tags, and properly organize the items using ordered or unordered lists. • Build My First Table ◦ To enable students to create a simple HTML table using rows and columns. ◦ Using an HTML editor, create a webpage with a table that shows information such as a class schedule, price list, or contact list. • Fix and Improve the Table ◦ To demonstrate understanding of HTML tables by correcting and improving an existing table. ◦ Open the given HTML file, fix table structure errors, and enhance it by adding headings or organizing the data properly.
5	• Utilize HTML form, types, and elements in a webpage. • Apply links to images, email, button, and text in a webpage.	• Create a Simple Online Form ◦ To enable students to use HTML form elements and input types to create a basic webpage form. ◦ Using an HTML editor, create a form that includes text input, radio buttons,

		checkboxes, and a submit button. • Fix and Improve the Form ◦ To demonstrate understanding of HTML forms by correcting and enhancing form elements in a webpage. ◦ Open the provided HTML file, fix incorrect form tags or input types, and improve the form layout for proper user input. • Create a Linked Web Page ◦ To enable students to apply hyperlinks to text, images, buttons, and email addresses in an HTML webpage. ◦ Using an HTML editor, create a webpage where text, an image, a button, and an email address all link to appropriate destinations. • Fix and Enhance Links ◦ To demonstrate understanding of hyperlink usage by correcting and improving links in a webpage. ◦ Open the provided HTML file, fix broken or incorrect links, and ensure all text, images, buttons, and email addresses are properly linked.
6	• Develop a website.	• Plan and Build Your Website ◦ To enable students to design and create a simple multi-page website using HTML elements learned.

		- Using an HTML editor, develop a website with at least 2 pages that include headings, paragraphs, images, lists, and links. Review and Improve Your Website - To demonstrate understanding of website development by refining structure, content, and design. - Open your existing website, check for errors, improve formatting, add multimedia or links, and ensure navigation works between pages.
7	- Discuss syntax, selectors, and types of cascading style sheets. - Apply CSS Colors, backgrounds, fonts, and text into a webpage.	Style My Web Page - To enable students to apply CSS syntax and selectors to style a webpage. - Using an HTML file, create a CSS file or inline styles to change text color, font, and background using different CSS selectors. Fix and Organize CSS - To demonstrate understanding of CSS by correcting syntax errors and improving style rules. - Open the provided HTML and CSS files, fix syntax errors, apply correct selectors, and enhance the page design.

		• Colorful Web Makeover ◦ To enable students to apply colors, backgrounds, fonts, and text styles to enhance a webpage. ◦ Using an HTML file and CSS, change the page's background, text color, font style, and headings to create a visually appealing design. • Style Doctor Challenge ◦ To demonstrate understanding of CSS by correcting and enhancing page styling. ◦ Open the provided webpage, fix any incorrect CSS rules, and improve text, background, and font styles for better readability and design.
8	• Apply CSS borders, margins, and paddings. • Apply CSS icons, links, list and tables. • Apply CSS animation and transition in a webpage.	• Box It Up! ◦ To enable students to apply CSS borders, margins, and padding to style webpage elements. ◦ Using an HTML file and CSS, add borders, adjust margins, and apply padding to boxes or sections on your webpage for a neat layout. • Spacing Master Challenge ◦ To demonstrate understanding of CSS

		spacing properties by correcting and improving element layout. ○ Open the provided webpage, fix any incorrect border, margin, or padding rules, and improve spacing for a cleaner, organized look. ● Link & Icon Adventure ○ To enable students to style icons and links using CSS for a visually appealing webpage. ○ Using an HTML file and CSS, add icons and links, then style them with colors, hover effects, or size changes for better user experience. ● Stylish Lists & Tables ○ To demonstrate understanding of CSS styling by enhancing lists and tables on a webpage. ○ Open the provided webpage, style lists and tables using CSS borders, spacing, colors, and fonts to make them more attractive and readable. ● Animate Your Page! ○ To enable students to apply CSS animations to elements for dynamic webpage effects. ○ Using an HTML file and CSS, add
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		animations to text, images, or buttons to create movement or visual effects on your webpage. • Smooth Transition Challenge ◦ To demonstrate understanding of CSS transitions by applying smooth effects to webpage elements. ◦ Open the provided webpage, apply CSS transitions to buttons, links, or images, and test hover or click effects for smooth changes.
9	• Utilize CSS box model in a webpage. • Utilize CSS box shadow and transform in a webpage.	• Box Model Makeover ◦ To enable students to apply the CSS box model concepts of margin, border, padding, and content to webpage elements. ◦ Using an HTML file and CSS, adjust margins, borders, and padding of boxes or sections to create a well-structured and visually balanced layout. • Perfectly Padded Page ◦ To demonstrate understanding of the CSS box model by refining element spacing and layout. ◦ Open the provided webpage, inspect

		the boxes, and modify the CSS box model properties to improve spacing, alignment, and visual appeal. • Shadow Play ◦ To enable students to apply CSS box-shadow effects to enhance the appearance of webpage elements. ◦ Using an HTML file and CSS, add box-shadow to images, buttons, or divs to create depth and visual interest on your webpage. • Transform It ◦ To demonstrate understanding of CSS transform properties by modifying elements' size, position, or rotation. ◦ Open the provided webpage, apply CSS transform properties such as scale, rotate, or translate to selected elements, and test their effects.
10	• Create an interactive website.	• My Interactive World ◦ To enable students to create a webpage that responds to user interaction using links, buttons, forms, and multimedia. ◦ Using HTML and CSS, develop a webpage where users can click

		buttons, fill forms, or interact with images and see visible changes or responses. • Interactive Website Makeover ◦ To demonstrate understanding of interactivity by improving the functionality and engagement of a webpage. ◦ Open your existing webpage and add interactive elements such as hover effects, clickable images, forms, or styled buttons to enhance user experience.
Suggested Performance Tasks		• Individual Performance Task: My Dream Interactive Webpage ◦ To create a fully functional, interactive, and visually appealing webpage by applying all HTML and CSS skills learned. ◦ Individually, design and build a multi-section webpage that includes headings, paragraphs, lists, tables, forms, links, multimedia, CSS styling, animations, and interactive elements, and submit your HTML and CSS files. • Group Performance Task: Team Web Wizards ◦ To collaboratively design and develop a creative, interactive, and fully styled website using all HTML and CSS skills learned. ◦ In groups of 3–4, plan and build a multi-section website that includes headings, paragraphs, lists, tables, forms, links, multimedia, CSS styling, animations, and interactive elements, and present your website to the class.