



Computer Department

Semester: 1

2024 – 2025

Grade Level		12	Subject: Programming and Coding	
Teacher(s) Name		Mr. Bassel Shmiet		
Textbook				
Week #	Dates		Lesson Title / Pages	CCSS / NGSS Code
1	26 Aug	30 Aug	Introduction to visual basic	11.DTC.a. 3 Emphasize the importance of well-structured markup and teach students how to create valid HTML documents.
2	2 Sept	6 Sept	Random numbers <ul style="list-style-type: none"> ◆ Using formula ◆ Using if else Using select case	11.DTC.a. 4 Individually and collaboratively, use advanced tools to design and create online content (e.g., digital portfolio, multimedia, blog, webpage).
3	9 Sept	13 Sept	Text boxes <ul style="list-style-type: none"> ◆ User name ◆ password ◆ if else select case	11.DTC.a. 2 Emphasize the importance of clean and semantic markup, separation of content and presentation, proper indentation, and the use of appropriate tags for specific purposes.
4	16 Sept	20 Sept	Text boxes <ul style="list-style-type: none"> ◆ Multiplying ◆ Adding ◆ Dividing Backcolor	11.DTC.a. 5 Emphasize the significance of accessibility in web development, including the use of semantic markup, alt attributes for images, and proper use of headings for screen readers.
5	23 Sept	27 Sept	Flowcharts: <ul style="list-style-type: none"> ◆ For loop 	11.DTC.a. 6

			<ul style="list-style-type: none"> ◆ Do until ◆ While loop <p>If else</p>	Introduce the principles of responsive design, which ensures web content adapts well to different devices and screen sizes.
6	30 Sept	4 Oct	<p>Flowcharts:</p> <ul style="list-style-type: none"> ◆ For loop ◆ Do until ◆ While loop <p>If else</p>	11.DTC.a. 7 Introduce the principles of responsive design, which ensures web content adapts well to different devices and screen sizes.
7	7 Oct	11 Oct	<p>Radio buttons:</p> <ul style="list-style-type: none"> ◆ Know the uses of radio buttons <p>Use radio buttons in text boxes</p>	11.DTC.a. 7 Introduce the principles of responsive design, which ensures web content adapts well to different devices and screen sizes.
8	14 Oct	18 Oct	<p>Check boxes</p> <ul style="list-style-type: none"> ◆ Know the uses of check-boxes <p>Relate them to if else and select case</p>	11.DTC.a. 3 Emphasize the importance of well-structured markup and teach students how to create valid HTML documents.
9	21 Oct	25 Oct	<p>Loops</p> <ul style="list-style-type: none"> ◆ Know the use For loop ◆ Write a script with different types of conditional statements <p>Know the concept of looping</p>	11.DTC.a. 3 Emphasize the importance of well-structured markup and teach students how to create valid HTML documents.
10	28 Oct	1 Nov	<p>Loops</p> <ul style="list-style-type: none"> ◆ Know the use For loop ◆ Know the concept of looping <p>Write a JavaScript using simple for loop statement.</p>	11.DTC.a. 4 Individually and collaboratively, use advanced tools to design and create online content (e.g., digital portfolio, multimedia, blog, webpage).
11	4 Nov	8 Nov	<p>Loops</p> <ul style="list-style-type: none"> ◆ for ◆ do until <p>while loop</p>	11.DTC.a. 2 Emphasize the importance of clean and semantic markup, separation of content and presentation, proper indentation, and the use of appropriate tags for specific purposes.
12	11 Nov	15 Nov	<p>Input boxes</p> <ul style="list-style-type: none"> ◆ Using loops ◆ Sum ◆ Product <p>Factorial</p>	11.DTC.a. 5 Emphasize the significance of accessibility in web development, including the use of semantic markup, alt attributes for images, and proper use of headings for screen readers.

13	18 Nov	22 Nov	Controls <ul style="list-style-type: none"> ◆ Check boxes ◆ Radio buttons Properties <ul style="list-style-type: none"> ◆ Set visible and enable properties to true 	11.DTC.a. 6 Introduce the principles of responsive design, which ensures web content adapts well to different devices and screen sizes.
14	25 Nov	29 Nov	Looping Structures <ul style="list-style-type: none"> ◆ Infinite loops ◆ Prime Numbers 	11.DTC.a. 7 Introduce the principles of responsive design, which ensures web content adapts well to different devices and screen sizes.
15	2 Dec	6 Dec	Controlling Program Flow <ul style="list-style-type: none"> ◆ Using Flags ◆ Secret Message Decoder Sub Procedures	11.DTC.a. 7 Introduce the principles of responsive design, which ensures web content adapts well to different devices and screen sizes.
16	9 Dec	13 Dec	Functions and methods <ul style="list-style-type: none"> ◆ Pass a parameter to a function ◆ Pass more than a parameter to a function 	11.DTC.a. 3 Emphasize the importance of well-structured markup and teach students how to create valid HTML documents.
17	6 Jan	10 Jan	Controlling Program Flow <ul style="list-style-type: none"> ◆ Using Flags ◆ Secret Message Decoder Sub Procedures	11.DTC.a. 7 Introduce the principles of responsive design, which ensures web content adapts well to different devices and screen sizes.
18	13 Jan	17 Jan	Controlling Program Flow <ul style="list-style-type: none"> ◆ Using Flags ◆ Secret Message Decoder Sub Procedures	11.DTC.a. 3 Emphasize the importance of well-structured markup and teach students how to create valid HTML documents.
19	20 Jan	24 Jan		