



Semester: 2

2025 – 2026

Grade Level		12		Subject: Programming and Coding	
Teacher(s) Name		Mr. Bassel Shmiet			
Textbook		Introduction to Visual Basic			
Week #	Dates		Lesson Title / Pages	CCSS / NGSS Code / MOE	
20	Feb 2 nd	Feb 6 th	Functions and methods with looping structures <ul style="list-style-type: none"> ◆ Write a code with Functions and looping 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.	
21	Feb 9 th	Feb 13 th	Sub Procedures <ul style="list-style-type: none"> ◆ Write a code that use sub procedures and looping Pass more than a parameter to a sub procedure	11.DTC.a. 4 Individually and collaboratively, use advanced tools to design and create online content (e.g., digital portfolio, multimedia, blog, webpage).	
22	Feb 16 th	Feb 20 th	Mathematical and Business Functions <ul style="list-style-type: none"> ◆ Formatting Numeric Output ◆ Business Functions ◆ List box Control Trigonometric Methods	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.	
23	Feb 23 rd	Feb 27 th	Functions and methods with looping structures	11.DTC.a. 5 Emphasize the significance of accessibility in web	

			<ul style="list-style-type: none"> ◆ Write a code using Functions of mathematical and Business Functions 	development, including the use of semantic markup, alt attributes for images, and proper use of headings for screen readers.
24	Mar 2 nd	Mar 6 th	Arrays and Structures <ul style="list-style-type: none"> ◆ Describe types of problems that benefit from the use of arrays. ◆ Create one- and two-dimensional arrays. ◆ Use array parameters and pass array arguments. 	11.DTC.a. 6 Introduce the principles of responsive design, which ensures web content adapts well to different devices and screen sizes.
25	Mar 9 th	Mar 13 th	Arrays and Structures <ul style="list-style-type: none"> ◆ Understand how to implement arrays with meaningful indexes. ◆ Apply search algorithms to an array. <p>Understand dynamic arrays.</p>	11.DTC.a. 7 Introduce the principles of responsive design, which ensures web content adapts well to different devices and screen sizes.
26	Mar 30 th	Apr 3 rd	Arrays and Structures <ul style="list-style-type: none"> ◆ Understand how to implement arrays with meaningful indexes. ◆ Apply search algorithms to an array. <p>Understand dynamic arrays.</p>	11.DTC.a. 7 Introduce the principles of responsive design, which ensures web content adapts well to different devices and screen sizes.
27	Apr 6 th	Apr 10 th	Color, Sound, and Graphics <ul style="list-style-type: none"> ◆ Apply color to an interface. 	11.DTC.a. 3 Emphasize the importance of well-structured markup and teach students how to create valid HTML documents.

			<ul style="list-style-type: none"> ◆ Include a Color dialog box in an application. <p>Include images in an application.</p>	
28	Apr 13 th	Apr 17 th End of 3d Quarter	<p>Color, Sound, and Graphics</p> <ul style="list-style-type: none"> ◆ Add sound to an application. ◆ Identify image and sound file formats. ◆ Use a Timer control to create animation. <p>Use the Graphics class and its methods.</p>	<p>11.DTC.a. 3</p> <p>Emphasize the importance of well-structured markup and teach students how to create valid HTML documents.</p>
29	Apr 20 th	Apr 24 th	<p>Color, Sound, and Graphics</p> <ul style="list-style-type: none"> ◆ Add sound to an application. ◆ Identify image and sound file formats. <p>Use a Timer control to create animation.</p>	<p>11.DTC.a. 4</p> <p>Individually and collaboratively, use advanced tools to design and create online content (e.g., digital portfolio, multimedia, blog, webpage).</p>
30	Apr 27 th	May 1 st	<p>Creating Classes</p> <ul style="list-style-type: none"> ◆ Understand and instantiate objects. ◆ Design and create a class. <p>Apply appropriate naming conventions to a class.</p>	<p>11.DTC.a. 2</p> <p>Emphasize the importance of clean and semantic markup, separation of content and presentation, proper indentation, and the use of appropriate tags for specific purposes.</p>
31	May 4 th	May 8 th	<p>Creating Classes</p> <ul style="list-style-type: none"> ◆ Apply encapsulation. ◆ Explain the difference between public and protected methods. 	<p>11.DTC.a. 5</p> <p>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.</p>

			Write constructors.	
32	May 11 th	May 15 th Grade 12 Final Exams Start May 13	Sorting and Searching <ul style="list-style-type: none"> ◆ Understand the process of sorting. ◆ Implement the bubble sort algorithm. Measure the efficiency of a sorting algorithm.	11.DTC.a. 6 Introduce the principles of responsive design, which ensures web content adapts well to different devices and screen sizes.
33	May 18 th	May 22 nd	Creating Classes <ul style="list-style-type: none"> ◆ Apply encapsulation. ◆ Explain the difference between public and protected methods. Write constructors.	11.DTC.a. 7 Introduce the principles of responsive design, which ensures web content adapts well to different devices and screen sizes.
34	May 25 th	May 29 th	Sorting and Searching <ul style="list-style-type: none"> ◆ Understand the process of sorting. ◆ Implement the bubble sort algorithm. Measure the efficiency of a sorting algorithm.	11.DTC.a. 7 Introduce the principles of responsive design, which ensures web content adapts well to different devices and screen sizes.
35	Jun 1 st	Jun 5 th	Functions and methods with looping structures <ul style="list-style-type: none"> ◆ Write a code with Functions and looping Pass more than a parameter to a function	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.
36	Jun 8 th	Jun 12 th	Jun 11 - Jun 22: Final Exams for Grades 4-11.	
37	Jun 15 th	Jun 19 th	Jun 11 - Jun 22: Final Exams for Grades 4-11.	
38	Jun 22 nd	Jun 26 th	Jun 22: Make-up Exam for absent students.	
39	Jun 29 th	Jul 3 rd	June 30 - July 2: Make-up Exam for failing students.	

