Time Frame: 7 Weeks	Unit Title: Web Development	Course Name: Computer Science Grade 6					
Stage 1 - Desired Results							
Established Goals	Transfer						
 Students will create digital artifacts that use multiple computer languages to control the structure and style of their content. 	Students will be able to independently use their learning to						
	use creativity, problem solving, and coding skills to create a web page for personal expression.						
	Meaning						
	UNDERSTANDINGS Students will understand that	ESSENTIAL QUESTIONS Students will keep considering					
 Students will create a website as a form of personal expression. Students will use different programming languages to solve 	 Websites are created for a variety of purposes, including self expression, HTML communicates text structure on a webpage Use of style conventions makes reading/writing HTML easier. Using the structured practice of pair programming can make problem solving in coding more efficient. Use of copyrighted materials require permissions when adding contant to web pages 	 Why do people create websites? How can text communicate content and structure on a web page? How do I safely and appropriately make use of the content published on the internet? What strategies can I use when coding to find and fix issues? How do web developers work in teams to solve problems? 					
languages to solve different problems.	when adding content to web pages.	problems?					
	Acquisition						

Students will	Students will know	Students will be skilled at
 Students will examine their role and responsibilities as both creators and consumers of digital media. NH CS Standards <i>IC - Impacts of Computing</i> 1B-IC-18 - Discuss computing technologies that have changed the world and express how those 	 Students will know Website Website Content HTML HTML Element HTML Tag Website Structure Heading Digital Footprint Citation Copyright Creative Commons Intellectual Property Bug Comment 	 Students will be skilled at Identifying the reasons someone might visit a given website Identifying websites as a form of personal expression Explaining that HTML allows a programmer to communicate the way content should be structured on a web page Writing a simple HTML document that uses opening and closing tags to structure content Using documentation provided in the development tool Using heading tags to change the appearance of text on a web page. Structuring content into headings, subheadings,
 how those technologies influence, and are influenced by, cultural practices. 2-IC-20 - Compare tradeoffs associated with computing technologies that 	 Comment Debugging Indentation Whitespace CSS CSS Selector Pair Programming 	 Structuring content into headings, subheadings, and paragraphs. Using pair programming techniques to write and debug code Explaining reasons why it is difficult to control who sees information published online. Justifying guidelines for safely publishing information online. Using the color culo and clip tags to create
 affect people's everyday activities and career options. 1B-IC-21 - Use public domain or creative commons media and refrain from copying or using material 		 Osing the Col2, Cul2, and Ch2 tags to create ordered and unordered lists in an HTML page. Creating and naming a new HTML page. Explaining the purpose of copyright. Identifying the rights and restrictions granted by various Creative Commons licenses Adding an image to a web page Describing why using whitespace, indentation, and comments makes your code easier to maintain.

created by others without permission. • 2-IC-23 - Describe tradeoffs between allowing information to be public and keeping information private and secure. <i>NI - Networks & the Internet</i> • 1B-NI-05 - Discuss real-world cybersecurity problems and how personal information can be protected.	 Developing a set of techniques for preventing bugs in HTML code and finding them when they occur Using CSS selectors to style HTML text elements. Creating and linking to an external style sheet. Explaining the differences between HTML and CSS in both use and syntax. Using CSS properties to change the size, position, and borders of elements. Creating a CSS rule-set for the body element that impacts all elements on the page.
AP- Algorithms &	
Programming	
• 1B-AP-11 -	
Decompose (break	
down) problems into	
smaller, manageable	
subproblems to	
facilitate the	
program	
development	
process.	
• 1B-AP-12 - Modity,	
remix or incorporate	
evisting program into	
existing program into	
develop something	
develop something	

review of programs.	 new or add more advanced features. 1B-AP-15 - Test and debug (identify and fix errors) a program or algorithm to ensure it runs as intended 2-AP-13 - Decompose problems and subproblems into parts to facilitate the design, implementation, and review of programs. 			
	parts to facilitate the design, implementation, and			
parts to facilitate the design, implementation, and	problems and subproblems into			
problems and subproblems into parts to facilitate the design, implementation, and	• 2-AP-13 -			
 2-AP-13 - Decompose problems and subproblems into parts to facilitate the design, implementation, and 	ensure it runs as intended			
ensure it runs as intended • 2-AP-13 - Decompose problems and subproblems into parts to facilitate the design, implementation, and	fix errors) a program or algorithm to			
fix errors) a program or algorithm to ensure it runs as intended • 2-AP-13 - Decompose problems and subproblems into parts to facilitate the design, implementation, and	debug (identify and			
 Ib Ar 15 Test and debug (identify and fix errors) a program or algorithm to ensure it runs as intended 2-AP-13 - Decompose problems and subproblems into parts to facilitate the design, implementation, and 	new or add more advanced features.			

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