

Months/Days	Units	Standards	Content	Activities	Assessments
February 10 Days	Unit 1-WD Certified Review~Basic Internet History & Computer Knowledge	<p>12.9.3.IT-WD.1 Analyze customer requirements to design and develop a Web or digital communication product.</p> <p>12.9.3.IT-WD.2 Apply the design and development process to produce user-focused Web and digital communications solutions.</p> <p>12.9.3.IT-WD.3 Write product specifications that define the scope of work aligned to customer requirements.</p> <p>12.9.3.IT-WD.4 Demonstrate the effective use of tools for digital communication production, development and project management.</p> <p>12.9.3.IT-WD.5 Develop, administer and maintain Web applications.</p> <p>12.9.3.IT-WD.6 Design, create and publish a digital communication product based on customer needs.</p> <p>12.9.3.IT-WD.7 Evaluate the functionality of a digital communication product using industry accepted techniques and metrics.</p> <p>12.9.3.IT-WD.8 Implement quality assurance processes to deliver quality digital communication products and services.</p> <p>12.9.3.IT-WD.9 Perform maintenance and customer support functions for digital communication products.</p> <p>12.9.3.IT-WD.10 Comply with intellectual property laws, copyright</p>	<p>Knows what input devices are and what purposes they serve.</p> <p>Knows what output devices are and what purposes they serve.</p> <p>Understands what system software is and what purpose it serves.</p> <p>Knows what goes into developing a Quality Assurance Plan.</p> <p>Knows that the Target Audience is.</p> <p>Understands the importance of identifying the Target Audience.</p> <p>Knows the general characteristics of a good web site.</p> <p>Knows who Tim Burners-Lee's is and his contribution to the world.</p> <p>Understands the significance of the Mosaic Web Browser.</p> <p>Knows the significance of the ARPANET and its role in history.</p> <p>Knows the contributions of Charles Babbage's to society.</p> <p>Understands the significance of the ENIAC Computer.</p> <p>Understands the significance of the Analytical Engine.</p> <p>Knows the function of transistors in early computers.</p> <p>Knows the function of vacuum tube use in early computers</p>	<ul style="list-style-type: none"> • Computer Technology Evolution Study Guide Creation, Review Games and Quizzes (5 days) . • Planning and Developing Websites Study Guide Creation, Review Games and Quizzes (2 days) . • Hardware and Software Interactions Study Guide Creation, Review Games and Quizzes (3 Days) 	<p>-Study Guide Review Rubric</p> <p>-Quiz</p> <p>-Review Games</p> <p>-Study Guide Creation Rubric</p>

		<p>laws and ethical practices when creating Web/digital communications.</p> <p>WRK.9.1.2.CAP.4 List the potential rewards and risks to starting a business.</p> <p>TECH.9.4.2.CI.1 Demonstrate openness to new ideas and perspectives (e.g., 1.1.2.CR1a, 2.1.2.EH.1, 6.1.2.CivicsCM.2).</p> <p>TECH.9.4.2.CI.2 Demonstrate originality and inventiveness in work (e.g., 1.3A.2CR1a).</p> <p>TECH.9.4.2.CT.3 Use a variety of types of thinking to solve problems (e.g., inductive, deductive).</p> <p>TECH.9.4.2.DC.2 Explain the importance of respecting digital content of others.</p> <p>TECH.9.4.2.DC.3 Explain how to be safe online and follow safe practices when using the internet (e.g., 8.1.2.NI.3, 8.1.2.NI.4).</p> <p>TECH.9.4.2.DC.6 Identify respectful and responsible ways to communicate in digital environments.</p> <p>LA.RST.11-12.7 Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., quantitative data, video, multimedia) in order to address a question or solve a problem.</p> <p>LA.WHST.11-12.1.D Establish and maintain a style and tone appropriate to the audience and purpose (e.g., formal and objective for academic writing) while attending to the norms and conventions</p>	<p>Knows the function of the integrated circuit in early computers</p> <p>Understands the significance of the Altair 8800 in computer history.</p>		
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		<p>of the discipline in which they are writing.</p> <p>LA.WHST.11-12.2.A Introduce a topic and organize complex ideas, concepts, and information so that each new element builds on that which precedes it to create a unified whole; include formatting (e.g., headings), graphics (e.g., figures, tables), and multimedia when useful to aiding comprehension.</p> <p>LA.WHST.11-12.4 Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.</p> <p>LA.WHST.11-12.6 Use technology, including the Internet, to produce, share, and update writing products in response to ongoing feedback, including new arguments or information.</p> <p>VA.9-12.1.5.12prof.Cr1 Generating and conceptualizing ideas.</p> <p>VA.9-12.1.5.12prof.Cr2 Organizing and developing ideas.</p> <p>VA.9-12.1.5.12prof.Cr3 Refining and completing products.</p> <p>VA.9-12.1.5.12prof.Cr1a Use multiple approaches to begin creative endeavors.</p> <p>VA.9-12.1.5.12prof.Cr2c Collaboratively develop a proposal for an installation, artwork, or space design that transforms the perception and experience of a particular place.</p> <p>VA.9-12.1.5.12prof.Cr3a Apply</p>			
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		<p>relevant criteria from traditional and contemporary cultural contexts to examine,</p> <p>reflect on and plan revisions for works of art and design in progress.</p> <p>TECH.8.1.12.A Technology Operations and Concepts: Students demonstrate a sound understanding of</p> <p>technology concepts, systems and operations.</p> <p>TECH.8.1.12.B Creativity and Innovation: Students demonstrate creative thinking, construct knowledge and develop innovative products and process using technology.</p> <p>TECH.8.1.12.C Communication and Collaboration: Students use digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning of others.</p> <p>TECH.8.1.12.D Digital Citizenship: Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior.</p> <p>TECH.8.1.12.E Research and Information Fluency: Students apply digital tools to gather, evaluate, and use information.</p> <p>TECH.8.1.12.F Critical thinking, problem solving, and decision making: Students use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources.</p>			
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		<p>TECH.8.2.12.A The Nature of Technology: Creativity and Innovation: Technology systems impact every aspect of the world in which we live.</p> <p>TECH.8.2.12.B Technology and Society: Knowledge and understanding of human, cultural and society values are fundamental when designing technology systems and products in the global society.</p> <p>TECH.8.2.12.C Design: The design process is a systematic approach to solving problems.</p> <p>TECH.8.2.12.D Abilities for a Technological World: The designed world is the product of a design process that provides the means to convert resources into products and systems.</p> <p>TECH.8.2.12.E Computational Thinking: Programming: Computational thinking builds and enhances problem solving, allowing students to move beyond using knowledge to creating knowledge.</p> <p>CS.K-2.1A-AP-15 Using correct terminology, describe steps taken and choices made during the iterative process of program development.</p> <p>CS.K-2.1A-AP-14 Debug (identify and fix) errors in an algorithm or program that includes sequences and simple loops.</p> <p>CS.K-2.1A-AP-11 Decompose (break down) the steps needed to solve a problem into a precise sequence of instructions.</p>			
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		<p>CS.K-2.1A-AP-08 Model daily processes by creating and following algorithms (sets of step-by-step instructions) to complete tasks.</p> <p>CS.K-2.1A-AP-13 Give attribution when using the ideas and creations of others while developing programs.</p> <p>CS.K-2.1A-CS-01 Select and operate appropriate software to perform a variety of tasks, and recognize that users have different needs and preferences for the technology they use.</p> <p>CS.K-2.1A-CS-03 Describe basic hardware and software problems using accurate terminology.</p> <p>CS.K-2.1A-IC-17 Work respectfully and responsibly with others online.</p>			
February 30 Days	Unit 2-WD Certified Review~HTML and CSS Topics	<p>12.9.3.IT-WD.1 Analyze customer requirements to design and develop a Web or digital communication product.</p> <p>12.9.3.IT-WD.2 Apply the design and development process to produce user-focused Web and digital communications solutions.</p> <p>12.9.3.IT-WD.3 Write product specifications that define the scope of work aligned to customer requirements.</p> <p>12.9.3.IT-WD.4 Demonstrate the effective use of tools for digital communication production, development and project management.</p> <p>12.9.3.IT-WD.5 Develop, administer and maintain Web applications.</p> <p>12.9.3.IT-WD.6 Design, create and</p>		<ul style="list-style-type: none"> • Unit 3 HTML Basics with CSS Study Guide Creation, Review Games and Quizzes (15 days) . • Unit 4-Advanced HTML and CSS Study Guide Creation, Review Games and Quizzes (15 days) 	<ul style="list-style-type: none"> -Study Guide Review Rubric -Quiz -Review Games -Study Guide Creation Rubric

		<p>publish a digital communication product based on customer needs.</p> <p>12.9.3.IT-WD.7 Evaluate the functionality of a digital communication product using industry accepted techniques and metrics.</p> <p>12.9.3.IT-WD.8 Implement quality assurance processes to deliver quality digital communication products and services.</p> <p>12.9.3.IT-WD.9 Perform maintenance and customer support functions for digital communication products.</p> <p>12.9.3.IT-WD.10 Comply with intellectual property laws, copyright laws and ethical practices when creating Web/digital communications.</p> <p>WRK.9.1.2.CAP.4 List the potential rewards and risks to starting a business.</p> <p>TECH.9.4.2.CI.1 Demonstrate openness to new ideas and perspectives (e.g., 1.1.2.CR1a, 2.1.2.EH.1, 6.1.2.CivicsCM.2).</p> <p>TECH.9.4.2.CI.2 Demonstrate originality and inventiveness in work (e.g., 1.3A.2CR1a).</p> <p>TECH.9.4.2.CT.3 Use a variety of types of thinking to solve problems (e.g., inductive, deductive).</p> <p>TECH.9.4.2.DC.2 Explain the importance of respecting digital content of others.</p> <p>TECH.9.4.2.DC.3 Explain how to be safe online and follow safe practices when using the internet (e.g., 8.1.2.NI.3, 8.1.2.NI.4).</p>			
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		<p>TECH.9.4.2.DC.6 Identify respectful and responsible ways to communicate in digital environments.</p> <p>LA.RST.11-12.7 Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., quantitative data, video, multimedia) in order to address a question or solve a problem.</p> <p>LA.WHST.11-12.1.D Establish and maintain a style and tone appropriate to the audience and purpose (e.g., formal and objective for academic writing) while attending to the norms and conventions of the discipline in which they are writing.</p> <p>LA.WHST.11-12.2.A Introduce a topic and organize complex ideas, concepts, and information so that each new element builds on that which precedes it to create a unified whole; include formatting (e.g., headings), graphics (e.g., figures, tables), and multimedia when useful to aiding comprehension.</p> <p>LA.WHST.11-12.4 Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.</p> <p>LA.WHST.11-12.6 Use technology, including the Internet, to produce, share, and update writing products in response to ongoing feedback, including new arguments or</p>			
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		<p>information.</p> <p>VA.9-12.1.5.12prof.Cr1 Generating and conceptualizing ideas.</p> <p>VA.9-12.1.5.12prof.Cr2 Organizing and developing ideas.</p> <p>VA.9-12.1.5.12prof.Cr3 Refining and completing products.</p> <p>VA.9-12.1.5.12prof.Cr1a Use multiple approaches to begin creative endeavors.</p> <p>VA.9-12.1.5.12prof.Cr2c Collaboratively develop a proposal for an installation, artwork, or space design that transforms the perception and experience of a particular place.</p> <p>VA.9-12.1.5.12prof.Cr3a Apply relevant criteria from traditional and contemporary cultural contexts to examine, reflect on and plan revisions for works of art and design in progress.</p> <p>TECH.8.1.12.A Technology Operations and Concepts: Students demonstrate a sound understanding of technology concepts, systems and operations.</p> <p>TECH.8.1.12.B Creativity and Innovation: Students demonstrate creative thinking, construct knowledge and develop innovative products and process using technology.</p> <p>TECH.8.1.12.C Communication and Collaboration: Students use digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning of others.</p>			
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		<p>TECH.8.1.12.D Digital Citizenship: Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior.</p> <p>TECH.8.1.12.E Research and Information Fluency: Students apply digital tools to gather, evaluate, and use information.</p> <p>TECH.8.1.12.F Critical thinking, problem solving, and decision making: Students use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources.</p> <p>TECH.8.2.12.A The Nature of Technology: Creativity and Innovation: Technology systems impact every aspect of the world in which we live.</p> <p>TECH.8.2.12.B Technology and Society: Knowledge and understanding of human, cultural and society values are fundamental when designing technology systems and products in the global society.</p> <p>TECH.8.2.12.C Design: The design process is a systematic approach to solving problems.</p> <p>TECH.8.2.12.D Abilities for a Technological World: The designed world is the product of a design process that provides the means to convert resources into products and systems.</p> <p>TECH.8.2.12.E Computational Thinking: Programming: Computational thinking builds and</p>			
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		<p>enhances problem solving, allowing students to move beyond using knowledge to creating knowledge.</p> <p>CS.K-2.1A-AP-15 Using correct terminology, describe steps taken and choices made during the iterative process of program development.</p> <p>CS.K-2.1A-AP-14 Debug (identify and fix) errors in an algorithm or program that includes sequences and simple loops.</p> <p>CS.K-2.1A-AP-11 Decompose (break down) the steps needed to solve a problem into a precise sequence of instructions.</p> <p>CS.K-2.1A-AP-08 Model daily processes by creating and following algorithms (sets of step-by-step instructions) to complete tasks.</p> <p>CS.K-2.1A-AP-13 Give attribution when using the ideas and creations of others while developing programs.</p> <p>CS.K-2.1A-CS-01 Select and operate appropriate software to perform a variety of tasks, and recognize that users have different needs and preferences for the technology they use.</p> <p>CS.K-2.1A-CS-03 Describe basic hardware and software problems using accurate terminology.</p> <p>CS.K-2.1A-IC-17 Work respectfully and responsibly with others online.</p>			
April 20 Days	Unit 3-WD Certified Review~Graphics and Web	12.9.3.IT-WD.1 Analyze customer requirements to design and develop a Web or digital communication	Understands the various image file formats. Knows the difference between	• Graphics Concepts Study Guide Creation,	-Study Guide Review Rubric

	Administration	<p>product.</p> <p>12.9.3.IT-WD.2 Apply the design and development process to produce user-focused Web and digital communications solutions.</p> <p>12.9.3.IT-WD.3 Write product specifications that define the scope of work aligned to customer requirements.</p> <p>12.9.3.IT-WD.4 Demonstrate the effective use of tools for digital communication production, development and project management.</p> <p>12.9.3.IT-WD.5 Develop, administer and maintain Web applications.</p> <p>12.9.3.IT-WD.6 Design, create and publish a digital communication product based on customer needs.</p> <p>12.9.3.IT-WD.7 Evaluate the functionality of a digital communication product using industry accepted techniques and metrics.</p> <p>12.9.3.IT-WD.8 Implement quality assurance processes to deliver quality digital communication products and services.</p> <p>12.9.3.IT-WD.9 Perform maintenance and customer support functions for digital communication products.</p> <p>12.9.3.IT-WD.10 Comply with intellectual property laws, copyright laws and ethical practices when creating Web/digital communications.</p> <p>WRK.9.1.2.CAP.4 List the potential rewards and risks to starting a business.</p> <p>TECH.9.4.2.CI.1 Demonstrate</p>	<p>raster and vector images.</p> <p>Demonstrates an understanding of proper use of images on web sites.</p> <p>Understands the importance of cropping images for web site usage.</p> <p>Knows of available graphic editors, both open source and paid.</p> <p>Demonstrates an understanding of how antialiasing used.</p> <p>Knows GIF image type characteristics.</p> <p>Knows PNG image type characteristics.</p> <p>Knows the characteristics of the Jpeg/jpg image type.</p> <p>Knows Tiff image type characteristics.</p> <p>Knows what opacity is.</p> <p>Knows how to apply the rgb() color function in a CSS style rule.</p> <p>Knows how to apply the rgba() color function in a CSS style rule.</p> <p>Knows what causes an image to appear pixilated.</p> <p>Demonstrates an understanding of Image layers.</p> <p>Demonstrates appropriate text spacing and positioning of images.</p> <p>Understands the significance of Web Safe Colors.</p> <p>Demonstrates the ability to use the Hexadecimal (hex) color system on web documents.</p> <p>Understands legal issues in</p>	<p>Review Games and Quizzes (10 days) .</p> <ul style="list-style-type: none"> • Web Administration Topics Study Guide Creation, Review Games and Quizzes (10 days) 	<p>-Quiz</p> <p>-Review Games</p> <p>-Study Guide Creation Rubric</p>
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		<p>openness to new ideas and perspectives (e.g., 1.1.2.CR1a, 2.1.2.EH.1, 6.1.2.CivicsCM.2).</p> <p>TECH.9.4.2.CI.2 Demonstrate originality and inventiveness in work (e.g., 1.3A.2CR1a).</p> <p>TECH.9.4.2.CT.3 Use a variety of types of thinking to solve problems (e.g., inductive, deductive).</p> <p>TECH.9.4.2.DC.2 Explain the importance of respecting digital content of others.</p> <p>TECH.9.4.2.DC.3 Explain how to be safe online and follow safe practices when using the internet (e.g., 8.1.2.NI.3, 8.1.2.NI.4).</p> <p>TECH.9.4.2.DC.6 Identify respectful and responsible ways to communicate in digital environments.</p> <p>LA.RST.11-12.7 Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., quantitative data, video, multimedia) in order to address a question or solve a problem.</p> <p>LA.WHST.11-12.1.D Establish and maintain a style and tone appropriate to the audience and purpose (e.g., formal and objective for academic writing) while attending to the norms and conventions of the discipline in which they are writing.</p> <p>LA.WHST.11-12.2.A Introduce a topic and organize complex ideas, concepts, and information so that each new element builds on that which precedes</p>	<p>web design.</p> <p>Demonstrates a knowledge of the copyright requirements as they relate to web design.</p> <p>Knows what intellectual property theft is.</p> <p>Knows what Public Domain is.</p> <p>Knows what Phishing is, how to identify it, and how to protect against it.</p> <p>Knows the structure and purpose of IP Addresses.</p> <p>Understands the purpose of the Domain Name Service and what it does.</p> <p>Knows what an Internet Service Provider (ISP) is.</p> <p>Knows the purpose of "TCP/IP".</p> <p>Demonstrates knowledge of common web server software, such as Apache.</p> <p>Knows what HTTP is.</p> <p>Knows what FTP is.</p> <p>Knows what POP3 is.</p> <p>Knows of the common web server operating systems.</p>		
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		<p>it to create a unified whole; include formatting (e.g., headings), graphics (e.g., figures, tables), and multimedia when useful to aiding comprehension.</p> <p>LA.WHST.11-12.4 Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.</p> <p>LA.WHST.11-12.6 Use technology, including the Internet, to produce, share, and update writing products in response to ongoing feedback, including new arguments or information.</p> <p>VA.9-12.1.5.12prof.Cr1 Generating and conceptualizing ideas.</p> <p>VA.9-12.1.5.12prof.Cr2 Organizing and developing ideas.</p> <p>VA.9-12.1.5.12prof.Cr3 Refining and completing products.</p> <p>VA.9-12.1.5.12prof.Cr1a Use multiple approaches to begin creative endeavors.</p> <p>VA.9-12.1.5.12prof.Cr2c Collaboratively develop a proposal for an installation, artwork, or space design that transforms the perception and experience of a particular place.</p> <p>VA.9-12.1.5.12prof.Cr3a Apply relevant criteria from traditional and contemporary cultural contexts to examine, reflect on and plan revisions for works of art and design in progress.</p> <p>TECH.8.1.12.A Technology Operations and Concepts: Students</p>			
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		<p>demonstrate a sound understanding of technology concepts, systems and operations.</p> <p>TECH.8.1.12.B Creativity and Innovation: Students demonstrate creative thinking, construct knowledge and develop innovative products and process using technology.</p> <p>TECH.8.1.12.C Communication and Collaboration: Students use digital media and environments to communicate and work collaboratively, including at a distance, to support individual learning and contribute to the learning of others.</p> <p>TECH.8.1.12.D Digital Citizenship: Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior.</p> <p>TECH.8.1.12.E Research and Information Fluency: Students apply digital tools to gather, evaluate, and use information.</p> <p>TECH.8.1.12.F Critical thinking, problem solving, and decision making: Students use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources.</p> <p>TECH.8.2.12.A The Nature of Technology: Creativity and Innovation: Technology systems impact every aspect of the world in which we live.</p> <p>TECH.8.2.12.B Technology and Society: Knowledge and understanding of human, cultural and</p>			
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		<p>society values are fundamental when designing technology systems and products in the global society.</p> <p>TECH.8.2.12.C Design: The design process is a systematic approach to solving problems.</p> <p>TECH.8.2.12.D Abilities for a Technological World: The designed world is the product of a design process that provides the means to convert resources into products and systems.</p> <p>TECH.8.2.12.E Computational Thinking: Programming: Computational thinking builds and enhances problem solving, allowing students to move beyond using knowledge to creating knowledge.</p> <p>CS.K-2.1A-AP-15 Using correct terminology, describe steps taken and choices made during the iterative process of program development.</p> <p>CS.K-2.1A-AP-14 Debug (identify and fix) errors in an algorithm or program that includes sequences and simple loops.</p> <p>CS.K-2.1A-AP-11 Decompose (break down) the steps needed to solve a problem into a precise sequence of instructions.</p> <p>CS.K-2.1A-AP-08 Model daily processes by creating and following algorithms (sets of step-by-step instructions) to complete tasks.</p> <p>CS.K-2.1A-AP-13 Give attribution when using the ideas and creations of others while developing programs.</p>			
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		<p>CS.K-2.1A-CS-01 Select and operate appropriate software to perform a variety of tasks, and recognize that users have different needs and preferences for the technology they use.</p> <p>CS.K-2.1A-CS-03 Describe basic hardware and software problems using accurate terminology.</p> <p>CS.K-2.1A-IC-17 Work respectfully and responsibly with others online.</p>			
May 25 Days	Unit 4-WD Certified Review~PHP & MySQL & Javascript	<p>12.9.3.IT-WD.1 Analyze customer requirements to design and develop a Web or digital communication product.</p> <p>12.9.3.IT-WD.2 Apply the design and development process to produce user-focused Web and digital communications solutions.</p> <p>12.9.3.IT-WD.3 Write product specifications that define the scope of work aligned to customer requirements.</p> <p>12.9.3.IT-WD.4 Demonstrate the effective use of tools for digital communication production, development and project management.</p> <p>12.9.3.IT-WD.5 Develop, administer and maintain Web applications.</p> <p>12.9.3.IT-WD.6 Design, create and publish a digital communication product based on customer needs.</p> <p>12.9.3.IT-WD.7 Evaluate the functionality of a digital communication product using industry accepted techniques and metrics.</p>	<p>Knows how to create HTML forms and the various form fields.</p> <p>Understands the difference in the various form fields and when each should be used.</p> <p>Knows what the method & action attributes do and how to apply them.</p> <p>Understands the differences in an interpreter and compiler.</p> <p>Demonstrates an understanding of client-side scripting languages, specifically JavaScript.</p> <p>Demonstrates an understanding of server-side scripting languages, specifically PHP.</p> <p>Demonstrates how JavaScript variables are used.</p> <p>Demonstrates how PHP variables are created and used.</p> <p>Demonstrates the ability to properly apply event handlers.</p> <p>Knows how to create and use</p>	<ul style="list-style-type: none"> • Javascript Concepts Study Guide Creation, Review Games and Quizzes (10 days) . • PHP & MySQL Topics Study Guide Creation, Review Games and Quizzes (15 days) 	<p>-Study Guide Review Rubric</p> <p>-Quiz</p> <p>-Review Games</p> <p>-Study Guide Creation Rubric</p>

		<p>12.9.3.IT-WD.8 Implement quality assurance processes to deliver quality digital communication products and services.</p> <p>12.9.3.IT-WD.9 Perform maintenance and customer support functions for digital communication products.</p> <p>12.9.3.IT-WD.10 Comply with intellectual property laws, copyright laws and ethical practices when creating Web/digital communications.</p> <p>WRK.9.1.2.CAP.4 List the potential rewards and risks to starting a business.</p> <p>TECH.9.4.2.CI.1 Demonstrate openness to new ideas and perspectives (e.g., 1.1.2.CR1a, 2.1.2.EH.1, 6.1.2.CivicsCM.2).</p> <p>TECH.9.4.2.CI.2 Demonstrate originality and inventiveness in work (e.g., 1.3A.2CR1a).</p> <p>TECH.9.4.2.CT.3 Use a variety of types of thinking to solve problems (e.g., inductive, deductive).</p> <p>TECH.9.4.2.DC.2 Explain the importance of respecting digital content of others.</p> <p>TECH.9.4.2.DC.3 Explain how to be safe online and follow safe practices when using the internet (e.g., 8.1.2.NI.3, 8.1.2.NI.4).</p> <p>TECH.9.4.2.DC.6 Identify respectful and responsible ways to communicate in digital environments.</p> <p>LA.RST.11-12.7 Integrate and evaluate multiple sources of information presented in diverse formats and</p>	<p>JavaScript functions.</p> <p>Knows how to create and use PHP functions.</p> <p>Demonstrates the ability to concatenate strings.</p> <p>Knows the arithmetic operators and how to apply them in JavaScript & PHP expressions.</p> <p>Demonstrates the ability to properly call JavaScript and PHP functions.</p> <p>Knows how to create and use JavaScript Arrays.</p> <p>Knows how to create and use PHP Arrays.</p> <p>Knows the various control structures used with JavaScript and PHP.</p> <p>Understands how the various control structures work and how to apply them.</p> <p>Demonstrates how to designate required fields in a form.</p> <p>Demonstrates the ability to apply placeholders to form elements.</p> <p>Knows how to use the JavaScript window methods & properties.</p> <p>Demonstrates the ability to use, and an understanding of, algorithms.</p> <p>Demonstrates the ability to use, and an understanding of, pseudo code.</p> <p>Demonstrates the ability to recognize Syntax errors.</p> <p>Demonstrates the ability to recognize logic errors.</p>		
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		<p>media (e.g., quantitative data, video, multimedia) in order to address a question or solve a problem.</p> <p>LA.WHST.11-12.1.D Establish and maintain a style and tone appropriate to the audience and purpose (e.g., formal and objective for academic writing) while attending to the norms and conventions of the discipline in which they are writing.</p> <p>LA.WHST.11-12.2.A Introduce a topic and organize complex ideas, concepts, and information so that each new element builds on that which precedes it to create a unified whole; include formatting (e.g., headings), graphics (e.g., figures, tables), and multimedia when useful to aiding comprehension.</p> <p>LA.WHST.11-12.4 Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.</p> <p>LA.WHST.11-12.6 Use technology, including the Internet, to produce, share, and update writing products in response to ongoing feedback, including new arguments or information.</p> <p>VA.9-12.1.5.12prof.Cr1 Generating and conceptualizing ideas.</p> <p>VA.9-12.1.5.12prof.Cr2 Organizing and developing ideas.</p> <p>VA.9-12.1.5.12prof.Cr3 Refining and completing products.</p>	<p>Demonstrates the ability to output JavaScript content to the screen.</p> <p>Demonstrates the ability to output PHP content to the screen.</p> <p>Knows how to use escape characters</p> <p>Understands how to use shortcut notations (++ , += , -- , *= , etc.)</p> <p>Knows what the PHP isset() function does and understands how to properly use it.</p> <p>Knows what the PHP include() function does and understands how to properly use it.</p> <p>Knows what the ePHP include_once() function does and understands how to properly use it.</p> <p>Knows that the PHP require() function does and understands how to properly use it.</p> <p>Knows what the PHP ob_start() function does and understands how to properly use it.</p> <p>Knows what the PHP ob_get_contents() function does and understands how to properly use it.</p> <p>Knows what the PHP str_replace() function does and understands how to properly use it.</p> <p>Knows what the PHP setcookie() function does and how to properly use it.</p> <p>Knows what the PHP PHP mt_rand() function does and</p>		
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		<p>digital tools to gather, evaluate, and use information.</p> <p>TECH.8.1.12.F Critical thinking, problem solving, and decision making: Students use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources.</p> <p>TECH.8.2.12.A The Nature of Technology: Creativity and Innovation: Technology systems impact every aspect of the world in which we live.</p> <p>TECH.8.2.12.B Technology and Society: Knowledge and understanding of human, cultural and society values are fundamental when designing technology systems and products in the global society.</p> <p>TECH.8.2.12.C Design: The design process is a systematic approach to solving problems.</p> <p>TECH.8.2.12.D Abilities for a Technological World: The designed world is the product of a design process that provides the means to convert resources into products and systems.</p> <p>TECH.8.2.12.E Computational Thinking: Programming: Computational thinking builds and enhances problem solving, allowing students to move beyond using knowledge to creating knowledge.</p> <p>CS.K-2.1A-AP-15 Using correct terminology, describe steps taken and</p>	<p>common HTML5 tags and their associated attributes.</p> <p>Knows how to differentiate between block vs inline elements.</p> <p>Demonstrates how to align text with an element.</p> <p>Knows how to define text and font styles in a style sheet.</p> <p>Demonstrates how to use pseudo-elements.</p> <p>Knows how to create external style sheets.</p> <p>Demonstrates proper use of the padding style property.</p> <p>Demonstrates the ability to properly set margins on elements.</p> <p>Knows how to create and apply classes.</p> <p>Knows how to create and apply IDs.</p> <p>Knows the browser prefixes for Internet Explorer, Chrome, Safari, Firefox, and Opera.</p> <p>Demonstrates the ability to create tables and knows how to appropriately use tables.</p> <p>Knows how to merge table cells across columns and rows.</p> <p>Demonstrates a knowledge and understanding of the CSS text properties.</p> <p>Demonstrates a knowledge and understanding of the CSS border properties.</p> <p>Demonstrates a knowledge and understanding of the CSS position property.</p> <p>Knows how to apply the CSS</p>	
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		<p>choices made during the iterative process of program development.</p> <p>CS.K-2.1A-AP-14 Debug (identify and fix) errors in an algorithm or program that includes sequences and simple loops.</p> <p>CS.K-2.1A-AP-11 Decompose (break down) the steps needed to solve a problem into a precise sequence of instructions.</p> <p>CS.K-2.1A-AP-08 Model daily processes by creating and following algorithms (sets of step-by-step instructions) to complete tasks.</p> <p>CS.K-2.1A-AP-13 Give attribution when using the ideas and creations of others while developing programs.</p> <p>CS.K-2.1A-CS-01 Select and operate appropriate software to perform a variety of tasks, and recognize that users have different needs and preferences for the technology they use.</p> <p>CS.K-2.1A-CS-03 Describe basic hardware and software problems using accurate terminology.</p> <p>CS.K-2.1A-IC-17 Work respectfully and responsibly with others online.</p>	<p>offset properties such as left, right, top, and bottom.</p> <p>Knows how to use the CSS background properties.</p> <p>Knows how to set a minimum height of an element.</p> <p>Knows how to apply transparent background colors to container elements.</p> <p>Knows how to apply the transform property.</p> <p>Demonstrates an understanding of the float property.</p> <p>Knows how to insert audio into a web page.</p> <p>Knows how to insert video into a web page.</p> <p>Knows which HTML tags have been deprecated.</p> <p>Knows how to make content within an element editable.</p> <p>Demonstrates the ability to convert an inline element into a block element.</p> <p>Knows how to create the common special characters.</p> <p>Demonstrates how to set the color of text using CSS.</p> <p>Knows how to create ordered and unordered lists.</p> <p>Demonstrates how to change the bullet or numbering system in a list.</p> <p>Understands the difference in Sans-serif and Serif fonts.</p> <p>Demonstrates how to appropriately apply the clear property.</p> <p>Knows how to use and apply the transition property.</p>		
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			<p>Demonstrates a knowledge and understanding of the font properties.</p> <p>Knows how to apply a poster image to an embedded video.</p> <p>Knows the how to apply style sheets at various levels.</p> <p>Understands how and where each style sheet level should be used.</p> <p>Knows proper web page structure according to HTML5 standards.</p>		