Months/Days	Units	Standards	Content	Activities	Assessments
September 21 Days	Unit 1:Wordpress Learning Log	12.9.3.IT-WD.1 Analyze customer requirements to design and develop a Web or digital communication product. 12.9.3.IT-WD.2 Apply the design and development process to produce user-focused Web and digital communications solutions. 12.9.3.IT-WD.3 Write product specifications that define the scope of work aligned to customer requirements. 12.9.3.IT-WD.4 Demonstrate the effective use of tools for digital communication production, development and project management. 12.9.3.IT-WD.5 Develop, administer and maintain Web applications. 12.9.3.IT-WD.6 Design, create and publish a digital communication product based on customer needs. 12.9.3.IT-WD.7 Evaluate the functionality of a digital communication product using industry accepted techniques and metrics. 12.9.3.IT-WD.8 Implement quality assurance processes to deliver quality digital communication products and services. 12.9.3.IT-WD.9 Perform maintenance and customer support functions for digital communication products. 12.9.3.IT-WD.10 Comply with intellectual property laws, copyright laws and ethical practices when creating Web/digital communications. WRK.9.1.2.CAP.4 List the potential rewards	-Learning & Using a Content Management System Interface -Theming and Styling using a Content Management System -Creating & Editing Content using a CMS	• Wordpress Content (5 days) . • Wordpress Planning & Creation (5 Days) . • Wordpress Theming (10 days)	Monthly Learning Log Rubric Personal Portfolio Rubric

| | | and risks to starting a business.
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).
TECH.9.4.2.CI.2 Demonstrate originality and inventiveness in work (e.g., 1.3A.2CR1a).
TECH.9.4.2.CT.3 Use a variety of types of thinking to solve problems (e.g., inductive, deductive).
TECH.9.4.2.DC.2 Explain the importance of respecting digital content of others.
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).
TECH.9.4.2.DC.6 Identify respectful and responsible ways to communicate in digital environments.
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.
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.
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. LA.WHST.11-12.4 Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience. 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. VA.9-12.1.5.12prof.Cr1 Generating and conceptualizing ideas. VA.9-12.1.5.12prof.Cr2 Organizing and developing ideas. VA.9-12.1.5.12prof.Cr3 Refining and completing products. VA.9-12.1.5.12prof.Cr1a Use multiple approaches to begin creative endeavors. 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. 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. TECH.8.1.12.A Technology Operations and Concepts: Students demonstrate a sound understanding of technology concepts, systems and operations. TECH.8.1.12.B Creativity and Innovation: Students demonstrate creative thinking, construct knowledge and develop innovative products and process using technology. 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.
TECH.8.1.12.D Digital Citizenship: Students understand human, cultural, and societal issues related to
technology and practice legal and ethical behavior.
TECH.8.1.12.E Research and Information Fluency: Students apply digital tools to gather, evaluate, and
use information.
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.
TECH.8.2.12.A The Nature of Technology: Creativity and Innovation: Technology systems impact every
aspect of the world in which we live.
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.
TECH.8.2.12.C Design: The design process is a systematic approach to solving problems.
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.
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. CS.K-2.1A-AP-15 Using correct terminology, describe steps taken and choices made during the iterative process of program development. CS.K-2.1A-AP-14 Debug (identify and fix) errors in an algorithm or program that includes sequences and simple loops. CS.K-2.1A-AP-11 Decompose (break down) the steps needed to solve a problem into a precise sequence of instructions. CS.K-2.1A-AP-08 Model daily processes by creating and following algorithms (sets of step-by-step instructions) to complete tasks. CS.K-2.1A-AP-13 Give attribution when using the ideas and creations of others while developing programs. 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. CS.K-2.1A-CS-03 Describe basic hardware and software problems using accurate terminology. CS.K-2.1A-IC-17 Work respectfully and responsibly with others online.			
October 45 Days	Unit 2: HTML Forms & Javascript	12.9.3.IT-WD.1 Analyze customer requirements to design and develop a Web or digital communication product. 12.9.3.IT-WD.2 Apply the design and	-What is Programming -Program Planning	• Javascript Intro (2 Days) . • Unit 6 Lesson 2-	-Labs -Guided Discovery -Worksheets -Quizzes -Unit Exam

| | | development process to produce user-focused Web and digital communications solutions.
12.9.3.IT-WD.3 Write product specifications that define the scope of work aligned to customer requirements.
12.9.3.IT-WD.4 Demonstrate the effective use of tools for digital communication production, development and project management.
12.9.3.IT-WD.5 Develop, administer and maintain Web applications.
12.9.3.IT-WD.6 Design, create and publish a digital communication product based on customer needs.
12.9.3.IT-WD.7 Evaluate the functionality of a digital communication product using industry accepted techniques and metrics.
12.9.3.IT-WD.8 Implement quality assurance processes to deliver quality digital communication products and services.
12.9.3.IT-WD.9 Perform maintenance and customer support functions for digital communication products.
12.9.3.IT-WD.10 Comply with intellectual property laws, copyright laws and ethical practices when creating Web/digital communications.
WRK.9.1.2.CAP.4 List the potential rewards and risks to starting a business.
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).
TECH.9.4.2.CI.2 Demonstrate originality and inventiveness in work (e.g., 1.3A.2CR1a).
TECH.9.4.2.CT.3 Use a variety of types of | -Web Forms
-The <form> Tag
-Form Fields
-Input Form Field Examples
-Select Box / Dropdown List
-hown in the example below.
-Other Form Field Attributes
-What Kind of Language is JavaScript?
-Writing JavaScript
-Object Oriented Programming
-Using Variables with JavaScript
-Functions
-Running / Calling Functions
-Methods vs Functions
-Applying Styles with the Document Object
-External JavaScript Files
-Accessing Form Data from a Function
-The Math Object
-Window Object Methods
-Creating and Closing Windows
-Window Object Properties
-What Are Data | HTML Forms (3 days) .
• Unit 6 Lab 2-1 & Quiz (5 Days) .
• Unit 6 Lab 3-2 & WS (5 Days) .
• Unit 6 Lab 4-4 & WS (5 Days) .
• Unit 6 Lab 4-2 & Quiz (5 Days) .
• Unit 6 Lab 6-2 (10 Days) .
• Unit 6 Lab 8-2, 8-4 & 8-6 (10 Days) | |

		thinking to solve problems (e.g., inductive, deductive). TECH.9.4.2.DC.2 Explain the importance of respecting digital content of others. 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). TECH.9.4.2.DC.6 Identify respectful and responsible ways to communicate in digital environments. 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. 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. 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. LA.WHST.11-12.4 Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience. LA.WHST.11-12.6 Use technology, including the Internet, to produce, share, and update writing products in	Structures & Arrays -Creating Arrays -Working With Array Elements -Program Flow -Shortcut Notations -Writing Repetition Statements -Writing Selection Statements -		

| | | response to ongoing feedback, including new arguments or information.
VA.9-12.1.5.12prof.Cr1 Generating and conceptualizing ideas.
VA.9-12.1.5.12prof.Cr2 Organizing and developing ideas.
VA.9-12.1.5.12prof.Cr3 Refining and completing products.
VA.9-12.1.5.12prof.Cr1a Use multiple approaches to begin creative endeavors.
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.
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.
TECH.8.1.12.A Technology Operations and Concepts: Students demonstrate a sound understanding of
technology concepts, systems and operations.
TECH.8.1.12.B Creativity and Innovation: Students demonstrate creative thinking, construct knowledge
and develop innovative products and process using technology.
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.
TECH.8.1.12.D Digital Citizenship: Students understand human, cultural, and societal issues related to
technology and practice legal and ethical | | | |

		behavior. TECH.8.1.12.E Research and Information Fluency: Students apply digital tools to gather, evaluate, and use information. 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. TECH.8.2.12.A The Nature of Technology: Creativity and Innovation: Technology systems impact every aspect of the world in which we live. 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. TECH.8.2.12.C Design: The design process is a systematic approach to solving problems. 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. 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. CS.K-2.1A-AP-15 Using correct terminology, describe steps taken and choices made during the iterative process of program development.			

		CS.K-2.1A-AP-14 Debug (identify and fix) errors in an algorithm or program that includes sequences and simple loops. CS.K-2.1A-AP-11 Decompose (break down) the steps needed to solve a problem into a precise sequence of instructions. CS.K-2.1A-AP-08 Model daily processes by creating and following algorithms (sets of step-by-step instructions) to complete tasks. CS.K-2.1A-AP-13 Give attribution when using the ideas and creations of others while developing programs. 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. CS.K-2.1A-CS-03 Describe basic hardware and software problems using accurate terminology. CS.K-2.1A-IC-17 Work respectfully and responsibly with others online.			
December 40 Days	Unit 3: PHP and MySQL-Server side languages and Databases	12.9.3.IT-WD.1 Analyze customer requirements to design and develop a Web or digital communication product. 12.9.3.IT-WD.2 Apply the design and development process to produce user-focused Web and digital communications solutions. 12.9.3.IT-WD.3 Write product specifications that define the scope of work aligned to customer requirements.	-The Development of PHP -How PHP Works -Writing PHP -PHP Variables -Predefined Functions -Defining Functions -Generating HTML Content	• PHP Intro (2 Days) . • Unit 7 Lab 1-1 & 1-2 (5 days) . • Unit 7 Lesson 2 WS, Lab 2-1 & Quiz (5 Days) . • Unit 7 Lesson 3	-Labs -Guided Discovery -Worksheets -Quizzes -Unit Exam

| | | 12.9.3.IT-WD.4 Demonstrate the effective use of tools for digital communication production, development and project management. 12.9.3.IT-WD.5 Develop, administer and maintain Web applications. 12.9.3.IT-WD.6 Design, create and publish a digital communication product based on customer needs. 12.9.3.IT-WD.7 Evaluate the functionality of a digital communication product using industry accepted techniques and metrics. 12.9.3.IT-WD.8 Implement quality assurance processes to deliver quality digital communication products and services. 12.9.3.IT-WD.9 Perform maintenance and customer support functions for digital communication products. 12.9.3.IT-WD.10 Comply with intellectual property laws, copyright laws and ethical practices when creating Web/digital communications. WRK.9.1.2.CAP.4 List the potential rewards and risks to starting a business. 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). TECH.9.4.2.CI.2 Demonstrate originality and inventiveness in work (e.g., 1.3A.2CR1a). TECH.9.4.2.CT.3 Use a variety of types of thinking to solve problems (e.g., inductive, deductive). TECH.9.4.2.DC.2 Explain the importance of respecting digital content of others. TECH.9.4.2.DC.3 Explain how to be safe online and follow safe practices when using the internet (e.g., | with Functions -Variable Scope -Superglobal Variables -Comparison Operators -Selection Statements -Logical Operators -The for Loop -The while Loop -Saving Information from a Web Page -Working with Data Files -Managing File Permissions with cPanel -Databases Used in Dynamic Content -Using MySQLi -Using phpMyAdmin -Managing Records -Accessing MySQL Records -Strings -String Functions -String Manipulation Function Reference -Cookies -Sessions - | WS & Lab 3-2 (10 Days) . • Unit 7 Lesson 4 GD & Lab 4-3 (10 Days) . • Unit 7 Lesson5 & 6 -MySQL Intro & Guided Discovery (5 Days) . • Unit 7 Lesson 7 WS & Lab 7-1 (10 Days) | |

		8.1.2.NI.3, 8.1.2.NI.4). TECH.9.4.2.DC.6 Identify respectful and responsible ways to communicate in digital environments. 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. 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. 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. LA.WHST.11-12.4 Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience. 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. VA.9-12.1.5.12prof.Cr1 Generating and conceptualizing ideas. VA.9-12.1.5.12prof.Cr2 Organizing and developing ideas. VA.9-12.1.5.12prof.Cr3 Refining and			

| | | completing products. VA.9-12.1.5.12prof.Cr1a Use multiple approaches to begin creative endeavors. 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. 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. TECH.8.1.12.A Technology Operations and Concepts: Students demonstrate a sound understanding of technology concepts, systems and operations. TECH.8.1.12.B Creativity and Innovation: Students demonstrate creative thinking, construct knowledge and develop innovative products and process using technology. 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. TECH.8.1.12.D Digital Citizenship: Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior. TECH.8.1.12.E Research and Information Fluency: Students apply digital tools to gather, evaluate, and use information. 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. TECH.8.2.12.A The Nature of Technology: Creativity and Innovation: Technology systems impact every aspect of the world in which we live. 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. TECH.8.2.12.C Design: The design process is a systematic approach to solving problems. 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. 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. CS.K-2.1A-AP-15 Using correct terminology, describe steps taken and choices made during the iterative process of program development. CS.K-2.1A-AP-14 Debug (identify and fix) errors in an algorithm or program that includes sequences and simple loops. CS.K-2.1A-AP-11 Decompose (break down) the steps needed to solve a problem into a precise sequence of			

		instructions. CS.K-2.1A-AP-08 Model daily processes by creating and following algorithms (sets of step-by-step instructions) to complete tasks. CS.K-2.1A-AP-13 Give attribution when using the ideas and creations of others while developing programs. 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. CS.K-2.1A-CS-03 Describe basic hardware and software problems using accurate terminology. CS.K-2.1A-IC-17 Work respectfully and responsibly with others online.			