

Hempfield School District Curriculum

Course Title:

Grade:

Unit Title: Approximate Dates when Taught During School Year (Start/End) Approximate Number of Periods/Classes: Unit Summary:	
Stage 1: Desired Results	
NETS-S Standards: 1. Creativity and Innovation	
Understandings	Essential Questions
Students will understand that... Technology integration can increase creativity and innovation across the curriculum.	<ul style="list-style-type: none"> • How can I use technology to confirm and enhance my understanding of the real world? • How can I use technology in a creative and innovative way?
Know/Vocabulary	Do Skills
Students will know... <ul style="list-style-type: none"> • definitions of: model, simulation, multimedia, storyboards, technology, trend • steps for solving a problem (problem, research, hypothesis, experiment, analysis, conclusion) or (problem, research, develop solution, select solution, construct prototype, test, communicate, redesign) • steps for creating a multimedia project • tools for creating, problem solving, data collection and reporting 	Students will be able to... <ul style="list-style-type: none"> • apply existing knowledge to generate new ideas, products, or processes • create original works as a means of personal or group expression. • use models and simulations to explore complex systems and issues. • identify trends and forecast possibilities using data. • Select the appropriate tool for creating an original work.

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NETS-S Standards: 2. Communication and Collaboration	
Understandings	Essential Questions
Students will understand that... Digital media and digital environments can be used to communicate and work collaboratively with others	<ul style="list-style-type: none"> • How do I use digital media and digital environments to collaborate and communicate with others? • How can I learn about the global society by communicating and collaborating with other learners?
Know/Vocabulary	Do Skills
Students will know... <ul style="list-style-type: none"> • definitions of: digital media, digital environment, collaboration, global society, and communication • tools for collaboration and communication • what communication tools are appropriate for different situations 	Students will be able to... <ul style="list-style-type: none"> • Work collaboratively with others through technology to produce team products or to solve problems. • Use a variety of media and formats to communicate information effectively to their audience.

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Stage 1: Desired Results	
NETS-S Standards: 3. Research and Information Fluency	
Understandings	Essential Questions
Students will understand that... Digital tools can be used to solve an information need.	<ul style="list-style-type: none"> • How do I utilize digital tools to find information? • Why is some information better than other information?
Know/Vocabulary	Do Skills
Students will know... <ul style="list-style-type: none"> • The steps of the research process • Search tools and techniques • Types of online resources • Evaluation Criteria of digital information 	Students will be able to... <ul style="list-style-type: none"> • Evaluate and select information sources and digital tools based on the information need • Access and locate information from a variety of digital resources • Plan, apply and revise research strategies

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NETS-S Standards: 4. Critical Thinking, Problem Solving, and Decision Making	
Understandings	Essential Questions
Students will understand that... Digital tools and resources can be used to plan and conduct research, manage projects and /or data, evaluate alternative solutions and solve problems.	<ul style="list-style-type: none"> • How does technology change thinking? • How can I use digital resources to see things from another perspective or to find a different solution? • How can digital resources deepen my understanding and help make informed decisions?
Know/Vocabulary	Do Skills
Students will know... <ul style="list-style-type: none"> • Problem solving strategies • Processing data steps: collecting, judging, organizing, analyzing. • The research process helps make informed decisions. 	Students will be able to... <ul style="list-style-type: none"> • Identify and define authentic problems and significant questions for investigation. • Utilize digital resources to improve their ability to research and develop an idea • Collect and analyze data to identify solutions and /or make informed decisions. • Use multiple processes and diverse perspectives to explore alternative solutions

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NETS-S Standards: 5. Digital Citizenship	
Understandings	Essential Questions
Students will understand that... Technology use in a global society involves human, cultural, and societal issues that requires us to practice legal and ethical behaviors.	<ul style="list-style-type: none"> • What does it mean to be a good digital citizen? • How does technology connect me to the world and increase my global understanding and cultural awareness? • How do I use technology in an appropriate, ethical, and legal manner?
Know/Vocabulary	Do Skills
Students will know... <ul style="list-style-type: none"> • characteristics of a good and poor “digital citizen”. • the definition of ethical. • the rules of using technology legally and ramifications for misuse. • how to credit others’ work. • etiquette of digital communication and collaboration • safety precautions when using the internet • the implications of sharing information digitally. 	Students will be able to... <ul style="list-style-type: none"> • demonstrate and practice safe, legal, and responsible use of technology. • exhibit characteristics of a good digital citizen. • apply ethical behavior to their use of technology. • credit others’ works appropriately. • participate in global activities, demonstrating knowledge of cultural differences.

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NETS-S Standards: 6. Technology Operations and Concepts	
Understandings	Essential Questions
Students will understand that... Current technology concepts, systems and operations are necessary to use technology efficiently and effectively.	<ul style="list-style-type: none"> • How do I choose the best technology tool for the task I am completing? • How can I apply what I already know about technology to learn new technologies? • What problem solving skills/strategies do I use to solve technology issues?
Know/Vocabulary	Do Skills
Students will know... <ul style="list-style-type: none"> • Key terms related to technology • Types of hardware and peripherals and their use. • Types of software and their use. • Navigation of a computer • Basic care of a computer • Troubleshooting techniques for solving problems with hardware and software. 	Students will be able to... <ul style="list-style-type: none"> • Demonstrate computer skills • Select and use applications effectively and productively • Troubleshoot systems and applications • Transfer current knowledge to learning of new technologies