

BLUE VALLEY DISTRICT CURRICULUM & INSTRUCTION

Computer Technology Digital Media and Design

(Grade 8)



ORGANIZING THEME/TOPIC

FOCUS STANDARDS & SKILLS

ORGANIZING THEME/TOPIC	1 OCOS STANDANOS & SKILLS
Overarching Instructional Approach: Student-driven Design Projects Design process Investigation of challenge situation Ideation Understanding constraints Testing and refining Prototype creation	Demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology. (NETS 1) Utilize design thinking and technology to solve a challenge or meet a need. Identify a challenge or need Demonstrate empathy in understanding need and collaborate to develop solutions Identify constraints Design a solution to meet the challenge or need Develop and refine a prototype
Communicating for an audience Presentation and display Time Frame: Small projects throughout course offering progressively more student voice and choice,	Present solution appropriate for intended audience
4-5 Weeks for culminating passion project NETS Standard(s): Critical thinking, problem solving, and decision making NETS Standard(s): Creativity and Innovation	
Theme: Organizing Digital Life Technology literacy for life-long learning Managing your digital life	Demonstrate understanding of technology concepts, systems, and operations. (NETS 6) • Demonstrate basic computer operations, hardware/software and file management skills that are essential to life-long learning • Develop a semester-long digital portfolio that documents skill development.
Time Frame: 1 Week and integrated throughout course projects NETS Standard(s): Technology Operations and Concepts	Locate, access, navigate, perform functions for a lifetime of learning Check grades Compose and sending an email Access class materials in a learning management system (LMS) Submit assignments and documents in a learning management system (LMS) Navigate current operating system (OS) mac/windows to locate libraries Correctly save files on the network drives Identify a connection of each technology system for use in other classes/content areas

Theme: Word/Numerical Processing	Use digital media to communicate and work collaboratively to support individual learning and
	contribute to the learning of others. (NETS 2)
Word Processing	 Select and create documents aligned to the purpose of a project.
Spreadsheets	
Charts and Graphs	Use spreadsheet tools and functions to solve problems and draw conclusions
	Use math functions (sums, average)
	Create and format charts and organize information in a graphic format
Time Frame: Integrated into digital media projects	 Use database functions within spreadsheets (sort data/select) to analyze information Insert data into digital media
	Use word processing to create and enhance content for digital media.
	Use tools and commands to create text and images for use in digital media
	Use tools to help proofread and edit
	Use templates as appropriate
	Insert and format graphics in digital media
NETC Standard(a). Communication and Callaboration	Format the display/layout
NETS Standard(s): Communication and Collaboration NETS Standard(s): Research and Information Fluency	
Theme: Digital Citizenship	Practice safe, legal, and responsible use of information and technology. (NETS 5.a)
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Digital research and investigations	Safe use of technology
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Theme: Digital Creation and Editing	Demonstrate creative thinking, construct knowledge, and develop innovative products and
	processes using technology (NETS 1)
Communicating an idea or message	
Multimedia projects integrating:	Create and utilize multimedia to effectively communicate a message.
 Presentations 	Locate and use tutorial information to create a presentation
 Digital Photography and Graphics 	 Save/organize files in preparation for creating and editing a multi-media project
Animation	 Use software menus and tools to improve a multi-media project (Web 2.0, Photo
 Video 	Story/Movie Maker, Power Point, Adobe Photoshop, Google Presentations)
Audio and soundtracks	 Include several types of media in a creative presentation (photos, audio, text)
Special effects	Apply basic color and design concepts to create or modify graphics
Webpage design	Effectively present content to an audience in a clear, organized and concise manner
Online collaboration tools	Express useful and meaningful critiques and comments to fellow students and media
Crimito conaporation toolo	Collaborate effectively and respectfully
	Determine the appropriate use of mobile applications to design and publish multimedia
	projects
Time Frame: 4-6 Weeks	projection and the projection of the projection
NETS Standard(s): Creativity and Innovation	
Theme: Coding in Digital Media and Web	Use critical thinking skills to plan and conduct research, solve problems using appropriate digital
	tools and resources.
Introduction to coding	
Sequencing and Logic	Construct knowledge and skills using digital media and web page development tools
	Use coding language or tiles to manipulate objects
Time Frame: 3-4 Weeks	Analyze code and predict what an object will do
	De-bug and problem-solve
NETS Standard(s): Critical thinking, problem solving, and	
decision making	
Theme: Digital Media and Career Awareness	Explore how digital media technology affects our lives and our world.
Introduction to digital media fields	 Identify at least 3 famous people associated with digital media and technological
Career and college awareness	innovations
Career and college readiness	Use technology related vocabulary correctly in context
	 Explore innovative, trending and future technologies and their application in our lives
	Career Awareness
	 Explore career possibilities, personal interests and aptitudes
	 Explore high school and college preparation options related to careers
Time Frame: Integrated throughout source	
Time Frame: Integrated throughout course	Career and College Readiness
	Interpret technical readings
NETS Standard(s): Critical thinking, problem solving, and	 Demonstrate goal-setting, planning, time and project management
decision making	Accurately measure and calculate using whole numbers, decimals and fractions
<u>sourcest making</u>	Work collaboratively with a team to accomplish team goals
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	Apply creative and critical thinking skills to solve problems