

techSteps

Correlations to WV CSOs

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WV Content Standards & Objectives

WV 21st Century Learning Skills

WV 21st Century Technology Tools

Eighth Grade – Project 1 – “Digital Storytelling”

Create a digital story - a short 'movie' that combines photographs, video clips, music, and the author's voice into a short, personal documentary.

Reading and English Language Arts : Grade 8

RLA.O.8.3.07

plan, create, organize, and present an age-appropriate media product that demonstrates format, purpose, and audience.

WV 21st Century Learning Skills

21C.O.5-8.1.LS2

Student interprets abstract visuals and creates products (e.g. digital storytelling) that reflect a growing understanding of visual language and require the effective use of tools (e.g. cropped photos, original charts and graphs, well-chosen images from databases, video clips).

21C.O.5-8.1.LS3

Student presents thoughts, ideas, and conceptual understanding efficiently, accurately and in a compelling manner and enhances the oral or written presentation through the use of technology.

21C.O.5-8.3.LS6

Student maintains focus on larger project goal, frames appropriate questions, reflects on possible courses of action and their likely consequences, develops and initiates a plan of action with appropriate smaller objectives and benchmarks, and submits the completed project when due.

WV 21st Century Technology Tools

21C.O.5-8.1.TT1

Student connects peripheral devices (e.g., scanners, digital cameras, video projectors, USB drives, printers, media storage devices) to computers and uses them efficiently and effectively. Student accesses server and/or network resources (e.g., file folders/software programs, bookmarked sites).

21C.O.5-8.1.TT3

Student recognizes different file format extensions (e.g.,.doc,.xls,.ppt,.rft,.pdf,.jpeg,.gif,.mpg,.wav,.mp3) and can import the different formats into documents, presentations, spreadsheets and databases.

21C.O.5-8.1.TT4

Student uses audio, video, pictures, clip art, moviemaker programs, webpage design software, electronic documents, and other files to create and publish electronic products to communicate with various audiences inside and outside the classroom.

21C.O.5-8.1.TT7

Student uses advanced features and utilities of presentation software (e.g., design templates, design layouts (fonts/ colors/ backgrounds) animation and graphics, inserting pictures, objects, movies, sound, charts, hyperlinks, and graphs) to create an original product.

21C.O.5-8.1.TT9

Student uses telecommunications tools (e.g., email, web pages, blogs, discussion groups, list-servs, etc.) to learn academic content and to gather, share and publish information to various audiences.

21C.O.5-8.2.TT1

Student solves problems related to hardware, software and networks by applying problem solving techniques (e.g., Task Manager to close tasks, Ctrl-Alt-delete, restarting the systems, accessing help menus, performing online searches, checking cable connections).

21C.O.5-8.3.TT4

Student complies with county acceptable use policy. Student discusses legal and ethical behaviors related to acceptable use of information and communication technology (e.g., privacy, security, copyright, file-sharing, plagiarism) and predicts the possible effects of unethical use of technology (e.g., consumer fraud, intrusion, spamming, virus setting, hacking) on the individual and society, as well as identify methods for addressing these risks.

21C.O.5-8.3.TT5

Student models ethical behavior relating to security, privacy, computer etiquette, passwords and personal information. Student demonstrates an understanding of copyright by citing sources of copyrighted materials in papers, projects and multi-media presentations.

21C.O.5-8.3.TT6

Student applies productivity/ multimedia tools and peripherals to support personal productivity, group collaboration, self-directed learning, lifelong learning, and assistance for individuals with disabilities including supplemental assistive technology tools.

Eighth Grade – Project 2 – “Online Book Review”

Read online book reviews and then publish your own reviews.

Reading and English Language Arts : Grade 8

RLA.O.8.1.06

determine and interpret the elements of literature to construct meaning and recognize author's purpose and/or reader's purpose: theme, character, setting

RLA.O.8.1.08

recognize connections among ideas in literary and informational text (e.g. text to self, text-to-text, text to world connection) and recognize that global awareness promotes understanding, tolerance, and acceptance of ethnic, cultural, religious and personal differences.

WV 21st Century Learning Skills

21C.O.5-8.1.LS3

Student presents thoughts, ideas, and conceptual understanding efficiently, accurately and in a compelling manner and enhances the oral or written presentation through the use of technology.

WV 21st Century Technology Tools

21C.O.5-8.1.TT9

Student uses telecommunications tools (e.g., email, web pages, blogs, discussion groups, list-servs, etc.) to learn academic content and to gather, share and publish information to various audiences.

21C.O.5-8.2.TT2

Student collaborates with peers, experts, and others using telecommunications and collaborative tools to investigate curriculum-related problems, issues, and information, and to develop solutions or products for audiences inside and outside the classroom.

21C.O.5-8.3.TT4

Student complies with county acceptable use policy. Student discusses legal and ethical behaviors related to acceptable use of information and communication technology (e.g., privacy, security, copyright, file-sharing, plagiarism) and predicts the possible effects of unethical use of technology (e.g., consumer fraud, intrusion, spamming, virus setting, hacking) on the individual and society, as well as identify methods for addressing these risks.

21C.O.5-8.3.TT5

Student models ethical behavior relating to security, privacy, computer etiquette, passwords and personal information. Student demonstrates an understanding of copyright by citing sources of copyrighted materials in papers, projects and multi-media presentations.

21C.O.5-8.3.TT6

Student applies productivity/ multimedia tools and peripherals to support personal productivity, group collaboration, self-directed learning, lifelong learning, and assistance for individuals with disabilities including supplemental assistive technology tools.

21C.O.5-8.3.TT7

Student develops an understanding of the need to protect his/her identity online, in e-mail, and or websites, limits the distribution of personal information and pictures, and evaluates the authenticity of e-mail that solicit personal information. Student identifies the methodologies that individuals and businesses can employ to protect the integrity of technology systems.

Eighth Grade – Project 3 – “From Issue to Action”

What will you do to help solve an issue you care about?

Reading and English Language Arts : Grade 8

RLA.O.8.2.08

conduct research by gathering, evaluating, and synthesizing data from a variety of sources: miscellaneous resource materials

RLA.O.8.2.09

select and use a variety of resource materials to plan, develop, and deliver a research project (5 pages) with documented sources, using multiple computer-generated graphic aids.

Social Studies : Grade 8

SS.O.08.01.01

evaluate how citizens can influence and participate in government at the local, state and national levels and assume the role of an active citizen participating in the democratic process(e.g., voting, community service, letter writing, town meeting, school elections).

SS.O.08.01.03

argue the effectiveness of selected public policies and citizen behaviors.

SS.O.08.01.04

compare and contrast the relationship between policy statements and action plans used to address issues of public concern.

SS.O.08.01.05

organize and provide examples of multiple points of view about selected public issues and evaluate the influence of diverse forms of public opinion on the development of public policy and decision-making.

SS.O.08.01.06

examine the strategies designed to strengthen the common good, which include a range of options for citizen action.

SS.O.08.01.07

identify, analyze, evaluate and interpret sources and examples of the responsibilities, privileges and rights of citizens.

WV 21st Century Learning Skills

21C.O.5-8.1.LS1

Student, when presented with a problem, identifies the information needed, uses text, people, online databases and search engines to filter relevant information efficiently, analyzes information for biases, synthesizes information gathered and creates an effective and efficient response to the problem

21C.O.5-8.1.LS3

Student presents thoughts, ideas, and conceptual understanding efficiently, accurately and in a compelling manner and enhances the oral or written presentation through the use of technology.

21C.O.5-8.2.LS1

Student engages in a critical thinking process that supports synthesis and conducts evaluations by applying comprehensive criteria.

21C.O.5-8.2.LS3

Student engages in a problem solving process that divides complex problems into simple parts in order to devise solutions.

21C.O.5-8.3.LS2

Student is flexible in approach to solving problems and completing tasks, considers alternative methods, solutions and perspectives, abandons strategies that do not work, and reallocates time and resources as priorities change.

21C.O.5-8.3.LS3

Student sets challenging goals and strategically plans to reach those goals, monitors performance and adjusts effort and strategies, seeks assistance when needed, and demonstrates focused commitment to reaching the established goals.

21C.O.5-8.3.LS4

Student demonstrates ethical behavior and works responsibly and collaboratively with others, in academic and social contexts, to accomplish both individual and team goals related to improved academic, extracurricular and co-curricular performances.

21C.O.5-8.3.LS6

Student maintains focus on larger project goal, frames appropriate questions, reflects on possible courses of action and their likely consequences, develops and initiates a plan of action with appropriate smaller objectives and benchmarks, and submits the completed project when due.

WV 21st Century Technology Tools

21C.O.5-8.1.TT4

Student uses audio, video, pictures, clip art, moviemaker programs, webpage design software, electronic documents, and other files to create and publish electronic products to communicate with various audiences inside and outside the classroom.

21C.O.5-8.1.TT6

Student uses advanced features and utilities of spreadsheet software, (e.g. functions, formulas, filters, sorts, creates graphs and charts), to perform calculations and to organize, analyze and report data.

21C.O.5-8.1.TT9

Student uses telecommunications tools (e.g., email, web pages, blogs, discussion groups, list-servs, etc.) to learn academic content and to gather, share and publish information to various audiences.

21C.O.5-8.1.TT10

Student uses Internet browsers, various search engines, book marking features, and advanced search techniques to gather information; student evaluates the information for validity, bias, appropriateness, content and usefulness.

21C.O.5-8.2.TT2

Student collaborates with peers, experts, and others using telecommunications and collaborative tools to investigate curriculum-related problems, issues, and information, and to develop solutions or products for audiences inside and outside the classroom.

21C.O.5-8.2.TT3

Student uses multiple technology tools for gathering information in order to solve problems, make informed decisions, and present and justify the solutions.

21C.O.5-8.2.TT4

Student formulates a plan and uses technology tools and multiple media sources to compare and analyze information in order to solve real-world problems.

21C.O.5-8.3.TT2

Student conducts online research and evaluates the accuracy, relevance, and appropriateness of electronic information sources.

21C.O.5-8.3.TT3

Student analyzes current information technologies and the effect these technologies have on the workplace and society.

21C.O.5-8.3.TT4

Student complies with county acceptable use policy. Student discusses legal and ethical behaviors related to acceptable use of information and communication technology (e.g., privacy, security, copyright, file-sharing, plagiarism) and predicts the possible effects of unethical use of technology (e.g., consumer fraud, intrusion, spamming, virus setting, hacking) on the individual and society, as well as identify methods for addressing these risks.

21C.O.5-8.3.TT5

Student models ethical behavior relating to security, privacy, computer etiquette, passwords and personal information. Student demonstrates an understanding of copyright by citing sources of copyrighted materials in papers, projects and multi-media presentations.

21C.O.5-8.3.TT6

Student applies productivity/ multimedia tools and peripherals to support personal productivity, group collaboration, self-directed learning, lifelong learning, and assistance for individuals with disabilities including supplemental assistive technology tools.

21C.O.5-8.3.TT7

Student develops an understanding of the need to protect his/her identity online, in e-mail, and or websites, limits the distribution of personal information and pictures, and evaluates the authenticity of e-mail that solicit personal information. Student identifies the methodologies that individuals and businesses can employ to protect the integrity of technology systems.

21C.O.5-8.3.TT8

Student recognizes personal limits in his/her knowledge and develops strategies and skills for using technology to seek information.

Eighth Grade – Project 4 – “Animate a Change Process”

Use sequences of PowerPoint slides to show changes over time - e.g., the development of a town, a biological process.

Science : Grade 8

SC.O.8.2.30

model processes of soil formation and suggest methods of soil preservation and conservation.

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21C.O.5-8.1.LS2

Student interprets abstract visuals and creates products (e.g. digital storytelling) that reflect a growing understanding of visual language and require the effective use of tools (e.g. cropped photos, original charts and graphs, well-chosen images from databases, video clips).

21C.O.5-8.1.LS3

Student presents thoughts, ideas, and conceptual understanding efficiently, accurately and in a compelling manner and enhances the oral or written presentation through the use of technology.

21C.O.5-8.2.LS1

Student engages in a critical thinking process that supports synthesis and conducts evaluations by applying comprehensive criteria.

21C.O.5-8.2.LS3

Student engages in a problem solving process that divides complex problems into simple parts in order to devise solutions.

WV 21st Century Technology Tools

21C.O.5-8.1.TT4

Student uses audio, video, pictures, clip art, moviemaker programs, webpage design software, electronic documents, and other files to create and publish electronic products to communicate with various audiences inside and outside the classroom.

21C.O.5-8.1.TT7

Student uses advanced features and utilities of presentation software (e.g., design templates, design layouts (fonts/ colors/ backgrounds) animation and graphics, inserting pictures, objects, movies, sound, charts, hyperlinks, and graphs) to create an original product.

21C.O.5-8.3.TT6

Student applies productivity/ multimedia tools and peripherals to support personal productivity, group collaboration, self-directed learning, lifelong learning, and assistance for individuals with disabilities including supplemental assistive technology tools.

Eighth Grade – Project 5 – “Database Analysis”

Work with your classmates to design, construct and use a database.

WV 21st Century Learning Skills

21C.O.5-8.1.LS1

Student, when presented with a problem, identifies the information needed, uses text, people, online databases and search engines to filter relevant information efficiently, analyzes information for biases, synthesizes information gathered and creates an effective and efficient response to the problem

21C.O.5-8.2.LS1

Student engages in a critical thinking process that supports synthesis and conducts evaluations by applying comprehensive criteria.

21C.O.5-8.2.LS2

Student draws conclusions from a variety of data sources to analyze and interpret systems.

21C.O.5-8.3.LS4

Student demonstrates ethical behavior and works responsibly and collaboratively with others, in academic and social contexts, to accomplish both individual and team goals related to improved academic, extracurricular and co-curricular performances.

WV 21st Century Technology Tools

21C.O.5-8.1.TT1

Student connects peripheral devices (e.g., scanners, digital cameras, video projectors, USB drives, printers, media storage devices) to computers and uses them efficiently and effectively. Student accesses server and/or network resources (e.g., file folders/software programs, bookmarked sites).

21C.O.5-8.1.TT6

Student uses advanced features and utilities of spreadsheet software, (e.g. functions, formulas, filters, sorts, creates graphs and charts), to perform calculations and to organize, analyze and report data.

21C.O.5-8.1.TT8

Student enters data relevant to class assignments into a database and performs simple queries.

21C.O.5-8.1.TT10

Student uses Internet browsers, various search engines, book marking features, and advanced search techniques to gather information; student evaluates the information for validity, bias, appropriateness, content and usefulness.

21C.O.5-8.2.TT2

Student collaborates with peers, experts, and others using telecommunications and collaborative tools to investigate curriculum-related problems, issues, and information, and to develop solutions or products for audiences inside and outside the classroom.

21C.O.5-8.2.TT4

Student formulates a plan and uses technology tools and multiple media sources to compare and analyze information in order to solve real-world problems.

21C.O.5-8.3.TT1

Student protects software, hardware and network resources from viruses, vandalism, and unauthorized use and uses proper techniques to access, use and shut down technology equipment.

21C.O.5-8.3.TT2

Student conducts online research and evaluates the accuracy, relevance, and appropriateness of electronic information sources.

21C.O.5-8.3.TT4

Student complies with county acceptable use policy. Student discusses legal and ethical behaviors related to acceptable use of information and communication technology (e.g., privacy, security, copyright, file-sharing, plagiarism) and predicts the possible effects of unethical use of technology (e.g., consumer fraud, intrusion, spamming, virus setting, hacking) on the individual and society, as well as identify methods for addressing these risks.

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21C.O.5-8.3.TT7

Student develops an understanding of the need to protect his/her identity online, in e-mail, and or websites, limits the distribution of personal information and pictures, and evaluates the authenticity of e-mail that solicit personal information. Student identifies the methodologies that individuals and businesses can employ to protect the integrity of technology systems.

21C.O.5-8.3.TT8

Student recognizes personal limits in his/her knowledge and develops strategies and skills for using technology to seek information.

Eighth Grade – Project 6 – “Linear Data Deductions”

Is there a relationship between house size and price? See how mathematics can be used to find out how strongly two factors are related.

Mathematics : Grade 8

M.O.8.2.9

represent and solve real-world grade-appropriate problems using multiple strategies and justify solutions.

M.O.8.5.3

create and extrapolate information from multiple-bar graphs, box and whisker plots, and other data displays using appropriate technology.

M.O.8.5.4

analyze problem situations, games of chance, and consumer applications using random and non-random samplings to determine probability, make predictions, and identify sources of bias.

M.O.8.5.5

draw inferences, make conjectures and construct convincing arguments involving

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21C.O.5-8.2.LS1

Student engages in a critical thinking process that supports synthesis and conducts evaluations by applying comprehensive criteria.

21C.O.5-8.2.LS2

Student draws conclusions from a variety of data sources to analyze and interpret systems.

WV 21st Century Technology Tools

21C.O.5-8.1.TT6

Student uses advanced features and utilities of spreadsheet software, (e.g. functions, formulas, filters, sorts, creates graphs and charts), to perform calculations and to organize, analyze and report data.

21C.O.5-8.1.TT10

Student uses Internet browsers, various search engines, book marking features, and advanced search techniques to gather information; student evaluates the information for validity, bias, appropriateness, content and usefulness.

21C.O.5-8.2.TT3

Student uses multiple technology tools for gathering information in order to solve problems, make informed decisions, and present and justify the solutions.

21C.O.5-8.2.TT4

Student formulates a plan and uses technology tools and multiple media sources to compare and analyze information in order to solve real-world problems.

21C.O.5-8.3.TT2

Student conducts online research and evaluates the accuracy, relevance, and appropriateness of electronic information sources.

21C.O.5-8.3.TT6

Student applies productivity/ multimedia tools and peripherals to support personal productivity, group collaboration, self-directed learning, lifelong learning, and assistance for individuals with disabilities including supplemental assistive technology tools.