Allamuchy Township School District

Technology Curriculum



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Mission Statement

The Allamuchy Township School District believes that the integration of technology into all phases of teaching and learning is a vital element of students' future success. The primary use of technology in education for Kindergarten through Eighth Grade is to assist in meeting the learners' developmental needs. Therefore, we are committed to providing age appropriate levels of technology use to effectively address the needs of all students. Technology will assist district professionals in their effort to ensure an opportunity for all students to develop the basic requisite skills and knowledge needed to reach the highest level of achievement possible for each individual. As students' capabilities expand, so will their ability to access and use local and global information sources, problem solving and decision-making tools, and additional technology-based learning opportunities. Because we believe that these opportunities for expanded learning drive the need for new technologies, we will support our teaching professionals and students with a regular commitment of human and financial resources.

K Unit 1	Essential	Students will be able to:	Standards	Suggested Activities	Assessments
Getting to	Questions				
know the		Identify the basic features of	8.1.2.A.1	-PBS Kids	Teacher
Computer	What are the	a computer and explain how	8.1.2.F.1		Observation
	basic	to use them effectively		-use of online software ex:	
	functions of a			learning.com's EasyTech	Rubrics
	computer?	Use mapping tools to plan			
		and choose alternate routes		-use Google maps to plan different	Software Based
Inter-		to and from various		routes to McDonalds, Friendly's, the	Skills Assessment
disciplinary		locations. (Mapping tools:		movie theater, etc.	
Connections		For example, Google earth,			Quizzes
		Yahoo maps, and Google			
Social Studies		maps.)			

K Unit 2	Essential	Students will be able to:	Standards	Suggested Activities	Assessments
	Questions				
Digital		Create a document with text	8.1.2.A.4	-types 3-5 sentences about a picture of	Teacher
Documentation	How can	using a word processing	8.1.2.B.1	family	Observation
	technology be	program	8.1.2.C.1		
	used to			 Use iPad to explore many ways to 	Rubrics
	enhance	Illustrate and communicate		illustrate letters and create letter stories	
	commun-	original ideas and stories		complete with letter raps	Software Based
Inter-	ication?	using digital tools and			Skills Assessment
disciplinary		media-rich resources.		-Skype: have a discussion with another	
Connections		[Media-rich: Multiple forms		class on a shared topic (How to prevent	Quizzes
		of digital applications in one		the spreading of germs)	
Language Arts		product (e.g., graphic design,			
Science		word processing, and		-use of online software ex:	
Health		spreadsheet)].		learning.com's EasyTech	
		Engage in a variety of			
		developmentally			
		appropriate learning			
		activities with students in			
		other classes, schools, or			
		countries using electronic			
		tools			

K Unit 3	Essential	Students will be able to:	Standards	Suggested Activities	Assessments
	Questions				
Intro to		Demonstrate the ability to	8.1.2.A.5	-PBS kids games	Teacher
research	How does	navigate in virtual	8.1.2.E.1		Observation
	technology	environments that are	W.K.8	-use of online software ex:	
	help to document	developmentally appropriate. (Virtual		learning.com's EasyTech	Rubrics
Inter-	facts?	environments: For example,			Software Based
disciplinary		games, simulations,		-group research project (solar system)	Skills Assessment
Connections		websites, blogs.)			
					Quizzes
Language Arts		Use digital tools and online			
Science		resources to explore a			
		problem or issue affecting			
		children, and discuss			
		possible solutions.			
		· · · · · · · · · · · · · · · · · · ·			
		With guidance and support			
		from adults, recall			
		information from			
		experiences or gather			
		information from provided			
		sources to answer a			
		question			
		4			

K Unit 4	Essential	Students will be able to:	Standards	Suggested Activities	Assessments
	Questions				
Problem		Brainstorm and devise a plan	W.K.8	-build with Legos or blocks- document	Teacher
Solving	How can	to repair a broken toy or tool	W.K.6	by taking pictures with the iPad.	Observation
	technology	using the design process.			
	tools be used			-create one page for book and upload to	Rubrics
	to promote	With guidance and support		online publishing site (ex:	
	creativity in	from adults, explore a		https://eschooltools.com/)	Software Based
Inter-	learning?	variety of digital tools to		Topic – growing plants.	Skills Assessment
disciplinary		produce and publish writing,		 Take pictures to document 	
Connections		including in collaboration		growth	Quizzes
		with peers		 Record growth and place in a 	
Language Arts				table in Excel	
Science				 Use graph in book 	
Math					
				-use of online software ex:	
				learning.com's EasyTech	

1 st Unit 1	Essential	Students will be able to:	Standards	Suggested Activities	Assessments
	Questions				
Technology		Use technology terms in	8.1.2.A.2	-use of online software ex:	Teacher
Refresher	What	daily practice	8.1.2.A.4	learning.com's EasyTech	Observation
	technology		8.1.2.A.5		
	and skills are	Create a document with text	8.1.2.F.1	-learn-to-type program (through	Rubrics
	necessary to	using a word processing		EasyTech)	
	be a	program			Software Based
Inter-	successful			-PBSkids	Skills Assessment
disciplinary	contributor in	Demonstrate the ability to			
Connections	the 21 st	navigate in virtual		-use Google maps to make directions to	Quizzes
	century?	environments that are		get home	
Science		developmentally			
		appropriate. (Virtual			
		environments: For example,			
		games, simulations,			
		websites, blogs.)			
		Use mapping tools to plan			
		and choose alternate routes			
		to and from various			
		locations. (Mapping tools:			
		For example, Google earth,			
		Yahoo maps, and Google			
		maps.)			

1 st Unit 2	Essential	Students will be able to:	Standards	Suggested Activities	Assessments
	Questions		01201		Tasahan
Compiling info		Illustrate and communicate	8.1.2.B.1	-based on classroom studies (penguins?)	Teacher
from a variety	How can	original ideas and stories	8.1.2.C.1	- make illustration	Observation
of sources	technology	using digital tools and		- type paragraph	D I de
	facilitate	media-rich resources.		- include data	Rubrics
	communicatio	[Media-rich: Multiple forms			Cafturana Dasad
	n and improve	of digital applications in one		-Skype, create interview questions to go	Software Based
	educational	product (e.g., graphic design,		along with topic (penguins?) and use	Skills Assessment
Inter-	and personal	word processing, and		Skype to interview students from	
disciplinary	success?	spreadsheet)].		another school	Quizzes
Connections					
		Engage in a variety of		-use of online software ex:	
Language Arts		developmentally		learning.com's EasyTech	
Science		appropriate learning			
		activities with students in			
		other classes, schools, or			
		countries using electronic			
		tools.			

1 st Unit 3	Essential	Students will be able to:	Standards	Suggested Activities	Assessments
	Questions				
Writing about		Use digital tools and online	8.1.2.E.1	 investigate time spent playing video 	Teacher
technology	How can	resources to explore a	8.2.2.B.2	games	Observation
	technology be	problem or issue affecting	RI.1.5	1. Investigate how video games have	
	beneficial but	children, and discuss		changed over time.	Rubrics
	problematic at	possible solutions		2. pick favorite video game and describe	
	the same			the device (computer, wii, iPad, etc.),	Software Based
Inter-	time?	Investigate the influence of a		the object of the game, and how much	Skills Assessment
disciplinary		specific technology on the		time is spent playing it.	
Connections		individual, family,		3. discuss why video games are	Quizzes
		community, and		problematic and why they are beneficial.	
Language Arts		environment		4. create a cover for the document and	
Social Studies				a table of contents	
		Know and use various text			
		structures (e.g., sequence)		-use of online software ex:	
		and text features (e.g.,		learning.com's EasyTech	
		headings, tables of contents,			
		glossaries, electronic menus,			
		icons) to locate key facts or			
		information in a text			

1 st Unit 4	Essential	Students will be able to:	Standards	Suggested Activities	Assessments
	Questions				
Publishing a		With guidance and support	W.1.6	-As a class, write a book about sea	Teacher
Book	How can	from adults, use a variety of	W.1.8	turtles that contains both fiction and	Observation
	technology be	digital tools to produce and		non-fiction writing.	
	used to	publish writing, including in			Rubrics
Inter-	problem solve	collaboration with peers		-using a template in PDF format,	
disciplinary	and promote			students will complete a graphic	Software Based
Connections	creativity and	With guidance and support		organizer to use when typing final	Skills Assessment
	learning?	from adults, recall		product	
Language Arts		information from			Quizzes
Science		experiences or gather		-each student will complete a fiction and	
		information from provided		a non-fiction story about a sea turtle.	
		sources to answer a			
		question		-students will create art work to be	
				featured in the book.	
				-upload stories and art work to an online	
				book publishing company (ex.	
				https://eschooltools.com/)	
				-use of online software ex:	
				learning.com's EasyTech	
				learning.com s easyrech	

2 nd Unit 1	Essential	Students will be able to:	Standards	Suggested Activities	Assessments
2 nd Unit 1 Informational Document Inter-	Questions How can technology be used to problem solve and promote creativity and	Students will be able to: Create a document with text using a word processing program Demonstrate the ability to navigate in virtual environments that are developmentally appropriate.	Standards 8.1.2.A.4 8.1.2.A.5 8.1.2.A.3 8.1.2.F.1 RI.2.5	 make an informational document that contains captions, bold print, subheadings, glossary, and index (dinosaurs) pick a location for a dino park using 	Assessments Teacher Observation Rubrics Software Based Skills Assessment
disciplinary Connections Language Arts Science Social Studies	learning?	(Virtual environments: For example, games, simulations, websites, blogs) Discuss the common uses of computer applications and hardware and identify their advantages and disadvantages Use mapping tools to plan and choose alternate routes to and from various locations. (Mapping tools: For example, Google earth, Yahoo maps, and Google maps) Know and use various text features (e.g., captions, bold print, subheadings, glossaries, indexes, electronic menus, icons) to locate key facts or information in a text efficiently		Google earth and create directions -using digital format, (Paint program) design the park. Include title, map key, icons, etc. -use of online software ex: learning.com's EasyTech	Quizzes

Essential	Students will be able to:	Standards	Suggested Activities	Assessments
Questions				
	Illustrate and communicate	8.1.2.B.1	-type (pioneer) story in Word and copy	Teacher
How can	original ideas and stories	8.1.2.D.1	story into PowerPoint	Observation
technology be	using digital tools and		-incorporate drawings into PowerPoint	
used to	media-rich resources.		-record voice and use as narration of	Rubrics
enhance	[Media-rich: Multiple forms		PowerPoint story	
presen-	of digital applications in one			Software Based
tations?	product (e.g., graphic design,		-use of online software ex:	Skills Assessment
			learning.com's EasyTech	
				Quizzes
	Model legal and ethical			
	_			
	÷			
	Questions How can technology be used to enhance presen-	QuestionsIllustrate and communicateHow canoriginal ideas and storiestechnology beusing digital tools andused tomedia-rich resources.enhance[Media-rich: Multiple formspresen-of digital applications in one	QuestionsIllustrate and communicate8.1.2.B.1How canoriginal ideas and stories8.1.2.D.1technology beusing digital tools and8.1.2.D.1used tomedia-rich resources.8.1.2.D.1enhance[Media-rich: Multiple formspresen-of digital applications in onetations?product (e.g., graphic design, word processing, and spreadsheet)]Model legal and ethical behaviors when using both print and non-print information by citing	QuestionsIllustrate and communicate original ideas and stories used to enhance tations?8.1.2.B.1 story into PowerPoint -incorporate drawings into PowerPoint -incorporate drawings into PowerPoint -record voice and use as narration of PowerPoint storyVertice[Media-rich: Multiple forms of digital applications in one tations?8.1.2.B.1 story into PowerPoint -incorporate drawings into PowerPoint -record voice and use as narration of PowerPoint storyModel legal and ethical behaviors when using both print and non-print information by citingModel legal and ethical behaviors when using both print and non-print information by citing

2 nd Unit 3	Essential	Students will be able to:	Standards	Suggested Activities	Assessments
	Questions				
Investigate and		Engage in a variety of	8.1.2.C.1	Topic: School lunches	Teacher
report	How can we	developmentally	8.1.2.E.1	-Find out the area's best and worst	Observation
	collaborate	appropriate learning	W.2.6	school lunches.	
	with other	activities with students in	W.2.8	-students will work in groups to develop	Rubrics
	peers from a	other classes, schools, or		questions to ask students from other	
	distance?	countries using electronic		schools regarding school lunch.	Software Based
Inter-		tools		-students will record responses (on	Skills Assessment
disciplinary				paper or audio recording device)	
Connections		Use digital tools and online		-as a group, students will write a report	Quizzes
		resources to explore a		based on school lunches.	
Language Arts		problem or issue affecting		-if data collected lends itself to easy	
Social Studies		children, and discuss		graphing, students will use Excel to input	
Math		possible solutions		data and produce a graph.	
Health				6 H 6	
		With guidance and support		-use of online software ex:	
		from adults, use a variety of		learning.com's EasyTech	
		digital tools to produce and			
		publish writing, including in			
		collaboration with peers			
		Recall information from			
		experiences or gather			
		information from provided			
		sources to answer a			
		question			

2 nd Unit 4	Essential	Students will be able to:	Standards	Suggested Activities	Assessments
	Questions				
Digital Stories			SL.2.5	- In collaboration with classroom	Teacher
	How can	Create audio recordings of		teacher, students will write stories and	Observation
	technology be	stories or poems; add		poems based on classroom topics	
	used to	drawings or other visual		 Record voice while reciting a story, 	Rubrics
	enhance	displays to stories or		make illustrations to be scanned, and	
Inter-	presen-	recounts of experiences		combine in PowerPoint or online book	Software Based
disciplinary	tations?	when appropriate to clarify		like <u>https://eschooltools.com/</u> to	Skills Assessment
Connections		ideas, thoughts, and feelings		develop a final product	
					Quizzes
Language Arts				-use of online software ex:	
Math				learning.com's EasyTech	
Science					
Social Studies					
Art					

3 rd Unit 1	Essential	Students will be able to:	Standards	Suggested Activities	Assessments
	Questions				
Report Writing		Demonstrate effective input	8.1.4.A.1		Teacher
	What skills	of text and data using an	8.1.4.A.2	-Discuss what the students have learned	Observation
	and	input device	W.3.6	about monarch butterflies in science	
	knowledge			class.	Rubrics
	are required	Create a document with text		-Take pictures of their monarch butterfly	
Inter-	to be a	formatting and graphics		habit on iPad to use as life cycle pictures	Software Based
disciplinary	successful	using a word processing		to incorporate into essay	Skills Assessment
Connections	contributor in	program		-Brainstorm questions that should be	
	the 21 st			answered through research	Quizzes
Language Arts	Century?	With guidance and support		-Participate in teacher guided research,	
Science		from adults, use technology		taking notes on attached butterfly fact	
		to produce and publish		sheet.	
		writing (using keyboarding		-Compile fact sheets so that the	
		skills) as well as to interact		students can use them to write their	
		and collaborate with others		own three paragraph essay about	
				monarch butterflies	
				-Type a three paragraph essay about	
				monarch butterflies	
				c 1. c.	
				-use of online software ex:	
				learning.com's EasyTech (focus on	
				typing)	

3 rd Unit 2	Essential	Students will be able to:	Standards	Suggested Activities	Assessments
	Questions				
Investigating		Engage in online discussions	8.1.4.C.1	Investigating Bullying	Teacher
Pertinent	How can we	with learners in the United	8.1.4.E.1	-working in groups, students will	Observation
Issues	collaborate	States or from other	W.3.8	develop a questionnaire to be used	
	with other	countries to understand		during a discussion about bullying with	Rubrics
	peers from a	their perspectives on a		students from another school	
	distance?	global problem or issue.		-students will develop solutions to	Software Based
		(Online discussion: UNICEF,		specific bullying issues.	Skills Assessment
Inter-		Oracle, i-Earn, blogs, wikis.)		-students will act out problems and	
disciplinary				solutions (record skits and compile into	Quizzes
Connections		Investigate a problem or		a video resource: kids helping kids)	
		issue found in the United			
Language Arts		States and/or another		 -use of online software ex: 	
Social Studies		country from multiple		learning.com's EasyTech	
		perspectives, evaluate			
		findings, and present			
		possible solutions, using			
		digital tools and online			
		resources for all steps			
		Recall information from			
		experiences or gather			
		information from print and			
		digital; take brief notes on			
		sources and sort evidence			
		into provided categories			

3 rd Unit 3	Essential	Students will be able to:	Standards	Suggested Activities	Assessments
	Questions				
Investigate and		Analyze the need for and use	8.1.4.D.2	- In cooperation with the classroom	Teacher
Report	How can	of copyrights	8.1.4.F.1	teacher, compile an informational book	Observation
	technology		8.2.4.A.2	derived from research that contains	
	tools be used	Select and apply digital tools	8.2.4.B.2	captions, bold print, subheadings,	Rubrics
	to problem	to collect, organize, and	8.2.4.B.3	glossary, and index	
	solve and	analyze data that support a	RI.3.5		Software Based
Inter-	promote	scientific finding		Topics: change in technology over time,	Skills Assessment
disciplinary	creativity and			alternate use for a product	
Connections	learning?	Using a digital format,			Quizzes
		compare and contrast how a		-use of online software ex:	
Language Arts		technology product has		learning.com's EasyTech	
Science		changed over time due to			
Social Studies		economic, political, and/or			
		cultural influences			
		Design an alternative use for			
		an existing product			
		Explain the positive and			
		negative effect of products			
		and systems on humans,			
		other species, and the			
		environment			
		Use text features and search			
		tools (e.g., key words,			
		sidebars, hyperlinks) to			
		locate information relevant			
		to a given topic efficiently			

using How can to collect, organize, and PowerPoint technology be analyze data that support a and analyze data.	eacher
enhance learning and fosterCreate engaging audio recordings of stories or poems that demonstratecreate a graph to aid in the analyzing of the data.Sor Ski SkiInter-creativity?poems that demonstrate- In a group, students develop and actSor Ski	Observation Rubrics oftware Based kills Assessment Quizzes

4 th Unit 1	Essential	Students will be able to:	Standards	Suggested Activities	Assessments
	Questions				
Data Input		Create a simple spreadsheet,	8.1.4.A.4	 -use of online software ex: 	Teacher
	How can we	enter data, and interpret the	8.1.4.A.5	learning.com's EasyTech	Observation
	use	information	8.1.4.D.1		
	technology to		8.1.4.D.3	-Create a spreadsheet that displays	Rubrics
	organize and	Determine the benefits of a		individual results from physical fitness	
	display data?	wide range of digital tools by		tests (have students perform selected	Software Based
Inter-		using them to solve		tests more than once to show	Skills Assessment
disciplinary	Why is ethical	problems		improvement or decline in results with	
Connections	and socially-			practice)	Quizzes
	responsible	Explain the need for each			
Math	behavior	individual, as a member of			
Science	critical when	the global community, to			
Physical Ed.	using	practice cyber safety, cyber			
Health	technology?	security, and cyber ethics			
Social Studies		when using existing and			
		emerging technologies			
		Explain the purpose of an			
		acceptable use policy and			
		the consequences of			
		inappropriate use of			
		technology			

4 th Unit 2	Essential	Students will be able to:	Standards	Suggested Activities	Assessments
	Questions				
Investigate and		Recall relevant information	W.4.6	 -use of online software ex: 	Teacher
Report	How can	from experiences or gather	W.4.8	learning.com's EasyTech	Observation
	technology be	relevant information from			
	used to	print and digital sources;		-work with classroom teacher to guide	Rubrics
	problem solve	take notes and categorize		students in producing a social	
	and promote	information, and provide a		studies/science research paper	Software Based
Inter-	creativity and	list of sources			Skills Assessment
disciplinary	learning?			Topics: energy shortage, gas prices,	
Connections		With some guidance and		recycling	Quizzes
		support from adults, use		Introduce activity using planning sheets	
Language Arts		technology, including the		-Research to answer the questions on	
Social Studies		Internet, to produce and		the planning sheet	
Science		publish writing as well as to		-Develop notes into paragraphs for	
		interact and collaborate with		essay	
		others; demonstrate		-Type essay	
		sufficient command of		-Include a plan to help fix the issue	
		keyboarding skills to type a		discussed in the report	
		minimum of one page in a			
		single sitting			
		5 5			

4 th Unit 3	Essential	Students will be able to:	Standards	Suggested Activities	Assessments
	Questions				
		Create and present a	8.1.4.A.3	 -use of online software ex: 	Teacher
Media Rich	How can	multimedia presentation	8.1.4.B.1	learning.com's EasyTech	Observation
Digital Stories	technology be	that includes graphics	8.1.4.E.2		
	used for		W.4.2	-Current Event	Rubrics
	investigation	Produce a media-rich digital		-include pictures, summary and	
	of local events	story about a significant		reflection on a current event article	Software Based
	or issues?	local event or issue based on		-students will complete a digital	Skills Assessment
Inter-		first-person interviews.		questionnaire to be used as a reflection	
disciplinary	How can	[Media-rich: Multiple forms		sheet for the article	Quizzes
Connections	technology be	of digital applications in one			
	used to	product (e.g., graphic design,		-Students will write a letter (to be	
Language Arts	enhance	word processing, and		emailed) to someone closely involved	
Social Studies	presen-	spreadsheet).]		with the current event issue asking their	
	tations?			own questions pertaining to the issue.	
		Evaluate the accuracy of,			
		relevance to, and		-Students will use information gained to	
		appropriateness of using		display in a presentation about the	
		print and non-print		current event issue.	
		electronic information			
		sources to complete a			
		variety of tasks			
		Write			
		informative/explanatory			
		texts to examine a topic and			
		convey ideas and			
		information clearly			

4 th Unit 4	Essential	Students will be able to:	Standards	Suggested Activities	Assessments
	Questions				
Research and		Select and apply digital tools	8.1.4.F.1	 -use of online software ex: 	Teacher
Information	What does it	to collect, organize, and	RI.4.7	learning.com's EasyTech	Observation
Lieteracy	mean to be	analyze data that support a	SL.4.5		
	tech-	scientific finding.		-in collaboration with science teacher,	Rubrics
	nologically			write a report, add audio, graphics,	
	literate?	Interpret information		graphs, animations, etc.	Software Based
		presented visually, orally, or			Skills Assessment
Inter-		quantitatively (e.g., in			
disciplinary		charts, graphs, diagrams,			Quizzes
Connections		time lines, animations, or			
		interactive elements on Web			
Language Arts		pages) and explain how			
Science		the information contributes			
Math		to an understanding of the			
Art		text in which it appears			
		Add audio recordings and			
		visual displays to			
		presentations when			
		appropriate to enhance the			
		development of main ideas			
		or themes			

5 th Unit 1	Essential	Students will be able to:	Standards	Suggested Activities	Assessments
	Questions				
Data Display		Generate a spreadsheet to	8.1.8.A.4	 -use of online software ex: 	Teacher
and Functions	How can	calculate, graph, and present	8.1.8.A.5	learning.com's EasyTech	Observation
of	technology	information.	8.1.8.D.1		
Spreadsheets	aid in			-Harvest Fest Shopping Activity	Rubrics
	organizing	Select and use appropriate		-Students will use an online circular for	
	data?	tools and digital resources to		Shoprite (shop from home) to search for	Software Based
		accomplish a variety of tasks		and find prices for items needed	Skills Assessment
	Why is ethical	and to solve problems.		-Students will complete a spreadsheet	
	and socially-			to determine the total amount needed	Quizzes
Inter-	responsible	Model appropriate online		for Harvest Fest	
disciplinary	behavior	behaviors related to cyber		-Students will insert formulas to	
Connections	critical when	safety, cyber bullying, cyber		determine the total money amount.	
	using	security, and cyber ethics.			
Math	technology?				
Social Studies					

5 th Unit 2	Essential	Students will be able to:	Standards	Suggested Activities	Assessments
	Questions				
		Recall relevant information	W.5.8	-use of online software ex:	Teacher
Development	How can	from experiences or gather	RI.5.7	learning.com's EasyTech	Observation
of the	technology	relevant information from	W.5.2		
Research Paper	facilitate com-	print and digital sources;		-work with classroom teacher to guide	Rubrics
	munication	summarize or paraphrase		students in producing a social studies	
	and improve	information in notes and		research paper	Software Based
	academic	finished work, and provide a			Skills Assessment
	success?	list of sources.		Stone Age: Introduce activity using	
Inter-				planning sheets	Quizzes
disciplinary		Draw on information from		-Research to answer the questions on	
Connections		multiple print or digital		the planning sheet	
		sources, demonstrating the		-Develop notes into paragraphs for	
Language Arts		ability to locate an answer to		essay	
Social Studies		a question quickly or to		-Type essay	
		solve a problem efficiently.			
		Write			
		informative/explanatory			
		texts to examine a topic and			
		convey ideas and			
		information clearly.			

5 th Unit 3	Essential	Students will be able to:	Standards	Suggested Activities	Assessments
	Questions				
Other		Create a multimedia	8.1.8.A.3	-use of online software ex:	Teacher
Presentation	How can	presentation including	8.1.8.E.1	learning.com's EasyTech	Observation
Formats (Prezi)	technology	sound and images.			
	facilitate com-	(Multimedia presentation:			Rubrics
	munication	For example, movie,		Discuss what the students have learned	
	and improve	podcast, vlog.)		about biomes in science	Software Based
	academic			-Introduce activity using planning sheets	Skills Assessment
Inter-	success?	Gather and analyze findings		-Research to answer the questions on	
disciplinary		using data collection		the planning sheet	Quizzes
Connections	Why is it	technology to produce a		-Develop notes into paragraphs for	
	important to	possible solution for a		essay	
Language Arts	learn multiple	content-related or real-		-Type essay	
Science	ways to	world problem. (Data-		-Find images of biome to incorporate	
	present data?	collection technology: For		into presentation	
		example, probes, handheld		-Develop Prezi presentation	
		devices, and geographic			
		mapping systems.)			

5 th Unit 4	Essential	Students will be able to:	Standards	Suggested Activities	Assessments
	Questions				
Using		With some guidance and	W.5.6	-use of online software ex:	Teacher
Recording	How can	support from adults, use	SL.5.5	learning.com's EasyTech	Observation
Devices	technology	technology, including the			
	assist in	Internet, to produce and		-students will develop a scientist	Rubrics
	answering a	publish writing as well as to		presentation	
	question?	interact and collaborate with		-students will develop interview	Software Based
Inter-		others; demonstrate		questions to be asked when pretending	Skills Assessment
disciplinary	How can	sufficient command of		to be their scientist	
Connections	technology be	keyboarding skills to type a		-have a partner conduct the interview	Quizzes
	used to	minimum of two pages in a		using the questions that the student	
Language Arts	enhance	single sitting		developed (they should answer the	
Science	presen-			questions correctly based on their	
Art	tations?	Include multimedia		research.)	
		components (e.g., graphics,		Record interview on iPad to incorporate	
		sound) and visual displays in		into presentation (from iPad, on	
		presentations when		PowerPoint, on Prezi, etc.)	
		appropriate to enhance the			
		development of main ideas			
		or themes			
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$6^{th} - 8^{th}$	Essential	Students will be able to:	Standards	Suggested Activities	Assessments
Unit 1	Questions				
		Create professional	8.1.8.A.1	Topics:	Teacher
Tech Literacy	How can	documents (e.g., newsletter,	8.1.8.A.2		Observation
	technology	personalized learning plan,	8.1.8.A.5	6 th Greece, genetic disorders	
	facilitate com-	business letter or flyer) using	8.1.8.D.2		Rubrics
	munication	advanced features of a word	W.6-8.2	7 th Colonies, use of minerals	
Inter-	and improve	processing program.			Software Based
disciplinary	academic			8 th Civil War, Uses of elements	Skills Assessment
Connections	success?	Plan and create a simple			
		database, define fields, input			Quizzes
All subject		data, and produce a report			
areas		using sort and query.			
		Select and use appropriate			
		tools and digital resources to			
		accomplish a variety of tasks			
		and to solve problems.			
		Summarize the application			
		of fair use and Creative			
		Commons guidelines.			
		Write			
		informative/explanatory			
		texts to examine a topic and			
		convey ideas, concepts, and			
		information through the			
		selection, organization, and			
		analysis of relevant content.			

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	6 th Use technology, including	W.6.6	
	the Internet, to produce and	W.7.6	
	publish writing as well as to	W.8.6	
	interact and collaborate with		
	others; demonstrate	WHST.6-	
	sufficient command of	8.6	
	keyboarding skills to type a		
	minimum of three pages in a		
	single sitting.		
	7 th Use technology, including		
	the Internet, to produce and		
	publish writing and link to		
	and cite sources as well as to		
	interact and collaborate with		
	others, including linking to		
	and citing sources.		
	8 th Use technology, including		
	the Internet, to produce and		
	publish writing and present		
	the relationships between		
	information and ideas		
	efficiently as well as to		
	interact and collaborate with		
	others.		
	Use technology, including		
	the Internet, to produce and		
	publish writing and present		
	the relationships between		
	information and ideas clearly		
	and efficiently.		
	and enrolency.		

$6^{th} - 8^{th}$	Essential	Students will be able to:	Standards	Suggested Activities	Assessments
Unit 2	Questions				
Com- munication and Collaboration	How can technology facilitate com- munication and improve academic success?	Synthesize and publish information about a local or global issue or event on a collaborative, web-based service (also known as a shared hosted service). (Shared hosted services: For example, podcasts, videos, or vlogs.)	8.1.8.B.1 8.1.8.C.1 8.1.8.D.3 8.1.8.F.1	Topics: 6 th Rome and Christianity, extreme bacteria 7 th Revolutionary War, International Space Station	Teacher Observation Rubrics Software Based Skills Assessment
Inter- disciplinary Connections All subject Areas		Participate in an online learning community with learners from other countries to understand their perspectives on a global problem or issue, and propose possible solutions. (Online learning community: For example, i-Earn, Ning, blogs, wikis, Second Life.) Demonstrate how information on a controversial issue may be biased. Use an electronic authoring tool in collaboration with learners from other countries to evaluate and summarize the perspectives of other cultures about a current event or contemporary figure. [Electronic authoring tools: Software that facilitates online book development (e.g., multimedia electronic book).]		8 th Reconstruction, Sir Isaac Newton	Quizzes

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	6 th Gather relevant information	W.6.8	
	from multiple print and digital	W.7.8	
	sources; assess the credibility	W.8.8	
	of each source; and quote or		
	paraphrase the data and		
	conclusions of others while		
	avoiding plagiarism and		
	providing basic bibliographic		
	information for sources.		
	th		
	7 th Gather relevant information		
	from multiple print and digital		
	sources, using search terms		
	effectively; assess the		
	credibility and accuracy of each		
	source; and quote or		
	paraphrase the data and		
	conclusions of others while		
	avoiding plagiarism and		
	following a standard format for		
	citation.		
	8 th Gather relevant information		
	from multiple print and digital		
	sources, using search terms		
	effectively; assess the		
	credibility and accuracy of each		
	source; and quote or		
	paraphrase the data and		
	conclusions of others while		
	avoiding plagiarism and		
	following a standard format for		
	citation.		

6 th – 8 th	Essential	Students will be able to:	Standards	Suggested Activities	Assessments
Unit 3	Questions	Integrate information			
		presented in different media	RI.6.7	-autobiography project	Teacher
Enhancing the	How can	or formats (e.g., visually,	RH.6-8.7		Observation
Research Paper	technology	quantitatively) as well as in		- use Excel to develop charts or graphs	
	assist in	words to develop a coherent	WHST.6-	to include in research paper	Rubrics
	enhancing	understanding of a topic or	8.2		
	projects and	issue.		Additional Topics:	Software Based
	foster		WHST.6-		Skills Assessment
Inter-	creativity?	Integrate visual information	8.8	6 th Africa, Middle East, Medicinal Plants	
disciplinary		(e.g., in charts, graphs,			Quizzes
Connections		photographs, videos, or		7 th Constitution, Extreme weather	
		maps) with other			
All subject		information in print and		8 th Career studies, Energy sources	
areas		digital texts			
		Write			
		informative/explanatory			
		texts, including the narration			
		of historical events, scientific			
		procedures/ experiments, or			
		technical processes.			
		Gather relevant information			
		from multiple print and			
		digital sources, using search			
		terms effectively; assess the			
		credibility and accuracy of			
		each source; and quote or			
		paraphrase the data and			
		conclusions of others while			
		avoiding plagiarism and			
		following a standard format			
		for citation.			

6 th – 8 th	Essential	Students will be able to:	Standards	Suggested Activities	Assessments
Unit 4	Questions				
		Include multimedia	SL.6.5	Prezi Presentations	Teacher
Critical	Why should	components (e.g., graphics,	SL.7.5		Observation
Thinking and	students	images, music, sound) and	SL.8.5	Topics:	
Problem	know multiple	visual displays in			Rubrics
Solving	ways to	presentations to clarify		6 th Middle Ages, Pollution	
	present	information.			Software Based
	information?			7 th Westward Expansion, Ocean	Skills Assessment
		Include multimedia		Pollution	
		components and visual			Quizzes
Inter-		displays in presentations to		8 th Personal Finance, History of	
disciplinary		clarify claims and findings		Computers	
Connections		and emphasize salient points			
All subject		Integrate multimedia and			
areas		visual displays into			
		presentations to clarify			
		information, strengthen			
		claims and evidence, and			
		add interest.			