ROCHELLE PARK TOWNSHIP SCHOOL DISTRICT Instructional Technology Curriculum Guide



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ROCHELLE PARK TOWNSHIP SCHOOL DISTRICT Instructional Technological Curriculum Guide

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INTERDISCIPLINARY THEMES

Social Interaction Networking

Planned interdisciplinary activities can help students to make sensible connections among subjects, while limiting the specialist's tendency to fragment the curriculum into isolated pieces. Such activities provide students with broader personal meaning and the integrated knowledge necessary to solve real-world problems. Teachers are encouraged to independently and cooperatively develop lessons which cover multiple areas simultaneously.

MISSION STATEMENT

The Rochelle Park School District's envisions an educational community which inspires and empowers all students to become self-sufficient and thrive in a complex, global society.

DEPARTMENT VISION

It is the firm belief of the Rochelle Park Township School District technology department that as technology continues to evolve so must we in order support our student into empowered citizenship to compete in today's global market. Continuous developments in the areas of multi-media, telecommunications, and virtual realities find an increasing role in schools and educators must be prepared to address these emerging technologies and understand that technology is vital in the everyday lives of our students, as well as us. Information literacy is the framework for a lifetime of learning.

21ST CENTURY THEMES & SKILLS

Embedded in much of our units of study and problem based learning projects are the 21st Century Themes as prescribed by the New Jersey Department of Education. These themes are as follows:

- Global Awareness
- ❖ Financial, Economic, Business, and Entrepreneurial Literacy
- Civic Literacy
- Health Literacy

AFFIRMATIVE ACTION COMPLIANCE STATEMENT

The Rochelle Park Township Public Schools are committed to the achievement of increased cultural awareness, respect and equity among students, teachers and community. We are pleased to present all pupils with information pertaining to possible career, professional or vocational opportunities which in no way restricts or limits option on the basis of race, color, creed, religion, sex, ancestry, national origin or socioeconomic status.

ROCHELLE PARK TOWNSHIP SCHOOL DISTRICT Technological Literacy Curriculum Guide

Grade: K Unit: Exploring Digital Tools Time Frame: Yearly: On-going

	ENDURING UNDERSTAN	NDING	ES	SSENTIAL QUESTION
 Technology is constantly changing and requires continuous learning of new skills. Technology supports learning in all areas through exploring ideas, solving problems, and making meaning. 		 What is technology and where can we find it? What is the internet? Are there basic computer operations that can help me use technology more efficiently? 		
	KNOWLEDGE		LLS	NJCCCS
\$	technology and digital tools require knowledge and appropriate use of operations and related applications. technology products and systems impact every aspect of the world in which we live. Digital tools and media-rich resources enhance creativity and the construction of knowledge.	 Students will be able to: identify the basic features of a computer and explain how to use them effectively. use technology terms in daily practice. demonstrate the ability to navigate in virtual environments that are developmentally appropriate. describe how technology products, systems, and resources are useful at school, home, and work. illustrate and communicate original ideas and stories using digital tools and media-rich resources. read the names of the parts of the computer as they are labeled on the computer. access the Internet through a bookmarked or hyperlinked site. move around the site using browser buttons. type a sentence or two and print and retrieve the document. illustrate the sentence(s) using a digital drawing program 		8.1.2.A.1 8.1.2.A.2 8.1.2.A.5 8.2.2.A.1 8.1.2.B.1 CLASSROOM INTEGRATION Students will have access to a labeled computer in the classroom. The computer will have Internet access with bookmarks and hyperlinks that the students may use when in the computer area. Students will occasionally type documents instead of hand writing document as a special project. Students will navigate a safe virtual environment.
	VOCABULARY	RESOURCES	/MATERIALS	ASSESSMENT/PROJECT

ROCHELLE PARK TOWNSHIP SCHOOL DISTRICT Technological Literacy Curriculum Guide

Grade: K Unit: Ex	ploring Digital Tools	Time Frame: Yearly: On-going
computer	classroom computer (all parts labeled)	<u>Formative</u>
monitor	access to the Internet	Classroom Observation:
CPU	hyperlinks	state computer parts
keyboard	bookmarked sites	locate desktop hyperlinks
mouse	drawing program (Kid Pix Studio)	navigation in virtual environment
Internet	digital camera	
hyperlink		<u>Summative</u>
website		Computer Parts Label Assessment
bookmark		Typed and Printed Sentences
virtual		Print Illustrations
drawing program (Kid Pix Studio)		
digital Camera		

Grade: K Unit: Connecting Digitally with our Community Time Frame: 3 Months

	ENDURING UNDERSTANDING		ESSENTIAL QUESTION
*	Digital tools allow for communication and collaboration anytime/anyplace worldwide.	*	How are computers a communication tool, and how far does it reach?
*	Technology can be a valuable resource to solve problems, collaboratively, locally and globally.	*	How can technology help us learn about the world around us?

KNOWLEDGE	SKILLS	NJCCCS
Students will know:	Students will be able to:	
 digital tools and environments support the learning process and foster collaboration in solving local or global issues and problems. effective use of digital tools assist in gathering and managing information. 	 engage in a variety of developmentally appropriate learning activities with students in other classes, schools, or countries using electronic tools. use digital tools and online resources to explore a problem or issue affecting children, and discuss possible solutions. draw or write an example of a resolution that he/she would employ regarding one of the following topic(s): Making friends Conflict resolution (Kelso) Monsters (unfounded fears) Occupations use a digital drawing program to complete a task. 	8.1.2.C.1 8.1.2.E.1 CLASSROOM INTEGRATION Students will discuss one of the following: Making friends Conflict resolution (Kelso) Monsters (unfounded fears) Occupations and illustrate, in a digital drawing program, a resolution to the issue discussed.
VOCABULARY	RESOURCES/MATERIALS	ASSESSMENT/PROJECT
Internet digital tools issue friends conflict conflict resolution occupation(s)	Internet access digital camera and Internet	Formative state possible solutions to problem Summative Resolution Picture

Grade: K Unit: Problem Solving with Digital Tools Time Frame: 3 Months

ENDURING UND	ERSTANDING	ESS	ENTIAL QUESTION
 Selection of technology should be based on the desired end product. Information can be collected, created, organized, and 		 How do I choose which technological tools to use and when it is appropriate to use them? How can technology help me know where I am and how to 	
presented using various techn	nological tools.	get somewhere?	
KNOWLEDGE	SKILL	S	NJCCCS
Students will know:	Students will be able to:		
 information accessed through the use of digital tools assist in generating solutions and making decisions. the design process is a systematic approach to solving problems. information-literacy skills, research, data analysis, and prediction provide the basis for the offertive design of 	 use mapping tools to plan routes to and from various brainstorm and devise a platoy or tool using the desig collect and post the results survey about a problem or suggest solutions. follow a list of ordinal diremap and end up the correct 	s locations lan to repair a broken gn process. s of a digital classroom r issue and use data to ections on a digital	8.1.2.F.1 8.2.2.B.1 8.2.2.D.1
for the effective design of technology systems.			CLASSROOMINTEGRATION
			Use the Smartboard, or similar device, to move an avatar around in a "neighborhood" following ordinal directions. Practice mapping skills by using interactive Internet maps for primary grades.
VOCABULARY	RESOURCES/MA	ATERIALS	ASSESSMENT/PROJECT
map Compass Rose North South East West Smartboard ordinal direction avatar digital survey	http://www.eduplace.com/kids ons/imaps/maps/g1_u3/index.ls software computer Smartboard		Formative Observe students following ordinal directions. State toy repair ideas Summative Print document with traced path Printed, plotted map Drawing of repaired toy

Grade: 1 Unit: Using Digital Tools in a Variety of Ways Time Frame: 5 Lessons

	ENDURING UNDERSTANDING		ESSENTIAL QUESTION
*	Technology allows us to display data and information in various ways.	*	How can we create and share work using technology?
*	Technology can be a communication tools that is interactive, creative, and productive.	*	How can technology help us make friends and learn more about the world around us?

KNOWLEDGE	SKILLS	NJCCCS
 digital tools and media-rich resources enhance creativity and the construction of knowledge. effective use of digital tools assist in gathering and managing information. information accessed through the use of digital tools assist in generating solutions and making decisions. technology products and systems impact every aspect of the world in which we live. the design process is a systematic approach to solving problems. information-literacy skills, research, data analysis, and prediction provide the basis for the effective design of technology systems. 	 Students will be able to: illustrate and communicate original ideas and stories using digital tools and media-rich resources. use digital tools and online resources to explore a problem or issue affecting children, and discuss possible solutions. use mapping tools to plan and choose alternate routes to and from various locations. describe how technology products, systems, and resources are useful at school, home, and work. brainstorm and devise a plan to repair a broken toy or tool using the design process. collect and post the results of a digital classroom survey about a problem or issue and use data to suggest solutions. create a class survey questioning students on an issue that might affect them. create a story using a media rich resource like Photostory 3 illustrating the "issue". use a digital map to explore coordinates. use all digital tools during station rotation in the computer lab. 	8.1.2.B.1 8.1.2.E.1 8.1.2.F.1 8.2.2.A.1 8.2.2.B.1 8.2.2.D.1 CLASSROOM INTEGRATION Collaborate with the classroom teacher on a social studies or science curriculum topic that affects their students. Review ordinal directions in the classroom to reinforce the lessons on mapping being done in the classroom. *ExPO Brainstorm and devise a plan to repair a broken toy or tool using the design process.
VOCABULARY	RESOURCES/MATERIALS	ASSESSMENT/PROJECT

Grade: 1	Unit: Using Digital Tools in a Variety of Ways	Time Frame: 5 Lessons
digital tools	digital camera/video	
media rich	scanner	<u>Formative</u>
resources	computer	Observe actions during station
communicate	Internet	rotation
technology toys	Skype	Navigate Internet Map
cassette tape	Webcam	State how tech tools are useful
cassette recorder	Wiki/Blog	Use digital tools appropriately
Sympodium	software (PowerPoint, MS Word, Publisher)	
Board	cassette tape	<u>Summative</u>
North	cassette recorder	Printed survey
South	http://www.kidsgames4free.com/arcadegames/3339	Photostory Presentation
East	<u>.html</u>	Printed, plotted map
West	Create a robot at this site in lieu of repair a broken	Print repaired toy
Compass Rose	toy activity	

Grade: 1 Unit: Exploring the Internet Time Frame: 4 Lessons

ENDURING UNDERSTANDING			E	SSENTIAL QUESTION	
*	* Technology allows us to communicate in many ways.		*	In a world of co	nstant change, what skills should we learn?
*	Technology can be a valuable resource to solve problems collaboratively, locally and globally.		*	How can techno	ology give us ways to talk to others?
			*	Why do we use	computers in a safe and responsible way?
	KNOWLEDGE	SKILL			NJCCCS

KNOWLEDGE	SKILLS	NICCCS
* technology and digital tools require knowledge and appropriate use of operations and related applications. * digital tools and environments support the learning process and foster collaboration in solving local or global issues and problems. * technological advancements create societal concerns regarding the practice of safe, legal, and ethical behaviors * effective use of digital tools assist in gathering and managing information * information accessed through the use of digital tools assist in generating solutions and making decisions	Students will be able to: demonstrate the ability to navigate in virtual environments that are developmentally appropriate. engage in a variety of developmentally appropriate learning activities with students in other classes, schools, or countries using electronic tools. model legal and ethical behaviors when using both print and non-print information by citing resources. use digital tools and online resources to explore a problem or issue affecting children, and discuss possible solutions use mapping tools to plan and choose alternate routes to and from various locations. create an avatar on a virtual site. participate in activities and navigate within the virtual site that are challenging and age appropriate. take an assessment reviewing appropriate behavior when on the Internet and when visiting a virtual environment. investigate a social issue by investigating information on line and use mapping software.	8.1.2.A.5 8.1.2.C.1 8.1.2.D.1 8.1.2.E.1 8.1.2.F.1 CLASSROOM INTEGRATION Teachers will coordinate to decide on a ROCHELLE PARK curriculum topic to investigate. Students will investigate the issue both in class and in the lab. Students will use the Internet to collect data.
VOCABULARY	RESOURCES/MATERIALS	ASSESSMENT/PROJECT
technology digital tools applications environments ethical behavior scenario avatar virtual world cyber safety cyber community cyber ethics	Internet software (Poptropica, My Make Believe Castle) Acceptable Use Policy	Formative Observations: Create avatar Point plots on map Articulate social issue Navigate virtual world Summative Internet Behavior Assessment Printed, plotted map

Grade: 1 Unit: Word Processing: Identifying the Tools We Use Time Frame: 5 Lessons

	ENDURING UNDERSTANDING		ESSENTIAL QUESTION
*	Technology is constantly changing and requires continuous learning of new skills.	*	Why do I need to know how to type?
*	Selection of technology should be based on the desired end product.	*	Are there basic computer operations that can help me use technology more efficiently?
*	A tool is only as good as the person using it.	*	Why is computer technology important part of everyday life?

KNOWLEDGE	SKILLS	NJCCCS
Students will know:	Students will be able to:	
technology and digital tools require knowledge and appropriate use of operations and related applications.	 identify the basic features of a computer and explain how to use them effectively. use basic technology terms in conversations. discuss the common uses of computer applications and hardware and identify their advantages and disadvantages. create a document with text using a word processing program. take a digital assessment regarding the parts of the computer and it uses. create a document incorporating formatting, cutting, pasting, formatting, inserting graphics. rotate through station having a chance to try a wide variety technology tools. 	8.1.2.A.1 8.1.2.A.2 8.1.2.A.3 8.1.2.A.4 CLASSROOM INTEGRATION Students will have a computer area in the classroom. The computer parts will be labeled. Students will create document in the classroom using skills that they have learned in the computer lab.

VOCABULARY		RESOURCES/MATERIALS	ASSESSMENT/PROJECT
digital tool application multimedia keyboard keyboarding typing computer monitor touchpad Internet	mouse printer Internet software Smart toys (iPod, MP3, iPod Touch Electronic	computer Internet Keyboarding Sites (to be found at Technology teacher websites attached to district websites) Blogs Wikis tech devices that require keyboarding Microsoft Office Suite of programs Type to Learn Type to Learn 3	Formative Observe input of digital information Observation during station rotation Summative Type To Learn Level Computer Parts Assessment Printed Document Printed Illustration

Grade: 1 Unit: Appropriate Internet Behavior Time Frame: 3 Lessons

	ENDURING UNDERSTAN	NDING	ESSENTIAL QUESTION	
we have well as b Technolo both use: Students wil technolo knowled operation technolo societal opractice behavior	gy and digital tools require ge and appropriate use of ns and related applications. gical advancements create concerns regarding the of safe, legal, and ethical rs. "word for word" is not legal	hat spans the globe; se it respectfully, as What are my responsibilities in using technological tools to when it is appropriate to use them? What are my responsibilities in using technological tools to when it is appropriate to use them? What are my responsibilities in using technological tools to when it is appropriate to use them? What are my responsibilities in using technological tools to when using another person not stealing or cheating? NJCCCS Students will be able to: discuss the common uses of computer applications and hardware and identify their advantages and disadvantages. model legal and ethical behaviors when using both print and non-print information by citing resources. state at least three reasons that computers are useful to them and to others. take an assessment regarding safety and appropriateness when using a computer. CLASSROOM INTEGENTIAL STUDIES S		priate to use them? ponsibilities in using technology? me when using another person's ideas are heating? NJCCCS 8.1.2.A.3 8.1.2.D.1 CLASSROOM INTEGRATION Student will have access to computer
	VOCABULARY	RESOURCES/MATERIALS		ASSESSMENT/PROJECT
safety ethical advantage disadvantag e Interactive Email predator	Acceptable Use Policy consequences appropriate inappropriate cyber safety cyber security cyber ethics	Internet Acceptable Use Police copyright laws cameras scanners webcams computers software as needed	су	Formative Observations: State three uses of computers State alternative ways to do tasks instead of using computer applications Summative Verbal quiz on plagiarism Safety assessment

Grade: 1 Unit: Finding and Using Digital Tools Time Frame: 5 Lessons

ENDURING UNDERS	TANDING	ESSENTIAL QUESTION		
 Digital tools provide enhanced op innovative solutions, and express : Selection of technology should be product. KNOWLEDGE Students will know: 	deas creatively. based on the desired end	 How can digital tools be used for creating original and innovative work, ideas, and solutions? How can we use technology to find information and learn? What software is available to me at school? ILLS NJCCCS		
 technology and digital tools require knowledge and appropriate use of operations and related application digital tools and media-rich resource enhance creativity and the construction of knowledge. 	discuss the commapplications and identify their addisadvantages. disadvantages. illustrate and corrideas and storie and media-rich participate in a Sdifferent compuniardware that he rate the usefulnes software/hardw create an origina	non uses of computer I hardware and Ivantages and Inmunicate original Is using digital tools resources. In urvey on all of the Inter applications and Items are I media-rich Items I media-rich I media-rich I media-rich I media-rich I media-rich Items I media-rich I media-rich I media-rich I media-rich I	Students will have access to the hardware and software from their classrooms. Students may create original work in class in lieu of more traditional classroom reporting.	
VOCABULARY		S/MATERIALS	ASSESSMENT/PROJECT	
Digital Story telling hardware computer application software pixel 3 Dimensional Design Textures, Forms	Internet Software Powerpoint Kidspiration Inspiration GollyGee Blocks Photo Story 3 Audacity Digital Blue Camera digital camera	.S	Formative State applications used Summative Printed illustration Multi- Media Presentation	

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Grade: 1 Unit: Computer Parts or Identify It! Time Frame: 4 Lessons

	ENDU	RINGUNDERSTAN	IDING	ES	SSENTIAL QUESTION
you need to know and understand the parts of the system that makes them work. * Knowing the proper names relating to hardware and software makes it easier to communicate with others about technology.		 called, if you know Are there basic of technology more 			
					NJCCCS
Students will know: * technology and digital tools require knowledge and appropriate use of operations and related applications. * identify the bactom computer and them effective them effective to use technology practice. * discuss the computer applications and identify disadvantage take a digital some of the process		 identify the basic computer and exthem effectively use technology tractice. discuss the computer applic and identify their disadvantages. take a digital assis some of the part 	pasic features of a d explain how to use vely 8.1.2.A.1 gy terms in daily ommon uses of plications and hardware their advantages and es. assessment identifying parts of the computer. Function of some of the CLASSROOM INTEGRA		
	VOCABULARY		RESOURCES	/MATERIALS	ASSESSMENT/PROJECT
hard drive DVD tray CPU monitor keyboard power cord connection cords printer ink cartridge, toner paper jam input device output device		computers computer parts (Inter external – monitor, k hard drive, central pr memory chips, proce thumb drive-memory scanner, printer) Internet software	eyboard, ,mouse, ocessing unit, ssor, fan, laptop,	Formative State parts of the computer State difference between application and hardware Summative Computer parts assessment Function of computer parts assessment	

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Grade: 1 Unit: Spreadsheets & Data Bases Time Frame: 4 Lessons

ENDURING UNDERSTANDING		ESSENTIAL QUESTION	
*	Technology provides us a way to collect, display, and share information.	*	How do I choose which technological tools to use and when it is appropriate to use them?
*	A tool is only as good as the person using it.	*	How can technology help us organize information?
		*	How do I access information for projects in other classes?

KNOWLEDGE	SKILLS	NJCCCS
* technology and digital tools require knowledge and appropriate use of operations and related applications.	 Students will be able to: Discuss the common uses of computer applications and hardware and identify their advantages and disadvantages. work in spreadsheet program adding columns, identifying cells, alphabetizing, reverse alphabetizing, coloring in cells. browse through different databases, particularly the library database. articulate that they are exploring a databases when searching for books in the library. 	CLASSROOM INTEGRATION The librarian will instruct the students that the library search is actually a look through a database program.
VOCABULARY	RESOURCES/MATERIALS	ASSESSMENT/PROJECT

library database database MaxData spreadsheets	library database Microsoft Excel MaxData	Formative State applications used State advantages and disadvantages of
cell		Computer use Observe database use
sheet border		Summative
sum tool		Printed spreadsheet Database assessment
sum data		Database assessment
column		
table		

Grade: 2 Unit: Exploring and Using Digital Devices Time Frame: 7 Lessons

ENDURING UNDERSTANDING	ESSENTIAL QUESTION	
Technology allows us to display data and information in various ways.	* How can we create and share work using technology?	
Technology can be a communication tools that is interactive, creative, and productive.	How can technology help us make friends and learn mo about the world around us?	ore

VOCABULARY		RESOURCES/MATERIALS	ASSESSMENT/PROJECT
digital tools media rich resources communicate collaboration technology toys cassette tape cassette recorder application multimedia keyboard keyboarding typing computer monitor touchpad Internet	mouse printer Internet software Smart toys (iPod, MP3, iPod Touch Electronic	digital camera/video scanner computer Internet Skype webcam Wiki/Blog software (PowerPoint, MS Word, Publisher) cassette tape cassette recorder	Formative Observe use of digital tools Summative Print Survey Print plotted map Illustration of repaired toy Skype Photostory

Grade: 2 Unit: How do I explore a Virtual World? Time Frame: 5 Lessons

ENDURING UNDERSTANDING	ESSENTIAL QUESTION	
❖ Technology allows us to communicate in many ways.	❖ In a world of constant change, what skills should we learn?	
Technology can be a valuable resource to solve problems collaboratively, locally and globally.	♦ How can technology give us ways to talk to others?	
, and the same of	❖ Why do we use computers in a safe and responsible way?	

KNOW	LEDGE	SKILLS	NJCCCS
 KNOWLEDGE Students will know: technology and digital tools require knowledge and appropriate use of operations and related applications. digital tools and environments support the learning process and foster collaboration in solving local or global issues and problems. digital tools facilitate local and global communication and collaboration in designing products and systems. 		 Students will be able to: demonstrate the ability to navigate in virtual environments that are developmentally appropriate. engage in a variety of developmentally appropriate learning activities with students in other classes, schools, or countries using electronic tools. communicate with students in the United States or other countries using digital tools to gather information about a specific topic and share results. create an avatar on a virtual site. participate in activities within the virtual site that are challenging and age appropriate. take an assessment reviewing appropriate behavior when on the Internet and when visiting a virtual environment. investigate a social issue by investigating information on line and use mapping software. 	8.1.2.A.5 8.1.2.C.1 8.2.2.E.1 CLASSROOM INTEGRATION Teachers will coordinate to decide on a ROCHELLE PARK curriculum topic to investigate. Students will investigate the issue both in class and in the lab. Students will use the Internet to collect data.
VOCAB	BULARY	RESOURCES/MATERIALS	ASSESSMENT/PROJECT
technology digital tools applications environments ethical behavior scenario avatar virtual world cyber safety cyber community cyber ethics		Internet software (Poptropica, My Make Believe Castle) Acceptable Use Policy	Formative Observe navigation within virtual site Participate in online interaction Summative Printed avatar Internet Behavior Assessment Print plotted map

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Grade: 2 Unit: Problem Solving using a Computer Time Frame: 6 Lessons

	ENDURING UNDERSTANDING		ESSENTIAL QUESTION
*	Technology supports learning in all areas through exploring ideas, solving problems, and making meaning.	*	How can we use technology to find information and learn?
*	Technology can be a communication tool that is interactive, creative, and productive.	*	Is there more than one kind of technology tool that can be used to create and share group projects?
*	Information can be collected, organized, created, and presented using technological tools.	*	How can technology showcase what I have learned?

KNOWLEDGE	SKILLS	NJCCCS
 ♦ effective use of digital tools assist in gathering and managing information ♦ information accessed through the use of digital tools assist in generating solutions and making decisions. ♦ the design process is a systematic approach to solving problems. 	 Students will be able to: use digital tools and online resources to explore a problem or issue affecting children, and discuss possible solutions. use mapping tools to plan and choose alternate routes to and from various locations. brainstorm and devise a plan to repair a broken toy or tool using the design process. use the Internet to investigate a problem with a web quest. create a survey re: the "issue". describe how our tech tools allowed us to learn about this issue. communicate the class findings on a kid friendly, global format. use mapping tools to following given ordinal directions. 	8.1.2.E.1 8.1.2.F.1 8.2.2.B.1 *ExPO CLASSROOM INTEGRATION Teachers will decided on possible curriculum topics to use for the web quest. Students will have access to the web quest from the classroom. Students may investigate the web quest during center time. All of the posted information will be available from the classroom computer. *ExPO – Devise a plan to repair or improve a toy. Follow a simplified version of the design process.
VOCABULARY	RESOURCES/MATERIALS	ASSESSMENT/PROJECT
problem solving design process global problem perspective solution evaluate appropriateness	Skype Audacity Wiki Blog http://www.virtualitoy.com Internet sites to create and fix digital toys/music Software (Golly Gee Blocks, Contraptions, Even More Contraptions, Kid Pix Studio)	Formative Choice of digital tools State findings of research Summative Digital survey Print plotted Map Print illustration of repaired toy

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Grade: 2 Unit: Communicating Using my Computer Time Frame: 7 Lessons

ENDURING UNDERSTANDING			ESSENTIAL QUESTION
*	Technology is constantly changing and requires continuous learning of new skills.	*	Why do I need to know how to type?
*	Selection of technology should be based on the desired end product.	*	Are there basic computer operations that can help me use technology more efficiently?
*	A tool is only as good as the person using it.	*	Why is computer technology important part of everyday life?

KNOW	LEDGE	SKILLS	NJCCCS
 KNOWLEDGE Students will know: technology and digital tools require knowledge and appropriate use of operations and related applications. digital tools and media-rich resources enhance creativity and the construction of knowledge. 		 identify the basic features of a computer and explain how to use them effectively. use technology terms in daily practice. discuss the common uses of computer applications and hardware and identify their advantages and disadvantages. create a document with text using a word processing program. illustrate and communicate original ideas and stories using digital tools and media-rich resources. take a digital assessment regarding the parts of the computer and it uses. create a document incorporating formatting, cutting, pasting, formatting, inserting graphics. 	8.1.2.A.1 8.1.2.A.2 8.1.2.A.3 8.1.2.A.4 8.1.2.B.1 CLASSROOM INTEGRATION Students will have a computer area in the classroom. The computer parts will be labeled. Students will create document in the classroom using skills that they have learned in the computer lab.
VOCAB	ULARY	RESOURCES/MATERIALS	ASSESSMENT/PROJECT
digital tool application multimedia keyboard keyboardd typing computer monitor touchpad Internet monitor		computer Internet Keyboarding Sites (to be found at Technology teacher websites attached to district websites) Blogs Wikis tech devices that require keyboarding Microsoft Office Suite of programs Type to Learn Type to Learn 3	Formative Observe input of digital information Summative Type To Learn Level Printed Document Printed Illustration Printed, formatted graphics
	1	19	

Grade: 2 Unit: Computers and My Behavior Time Frame: 5 Lessons

ENDURING UNDERSTANDING		ESSENTIAL QUESTION			
*	career needs assessment.		 How do I choose which technological tools to use and when it is appropriate to use them? What are my responsibilities in using technology? Is there ever a time when using another person's ideas are not stealing or cheating? 		
	KNOWI	LEDGE	SKI	LLS	NJCCCS
Stu	idents will know:		Students will be abl	e to:	
*	knowledge and ap operations and rel digital tools and e support the learni	lated applications. environments ing process and on in solving local nd problems. vancements create regarding the	 discuss the common uses of computer applications and hardware and identify their advantages and disadvantages. engage in a variety of developmentally appropriate learning activities with students in other classes, schools, or countries using electronic tools. model legal and ethical behaviors 		8.1.2.A.3 8.1.2.C.1 8.1.2.D.1 8.1.2.E.1 8.2.2.A.1
	behaviors.		when using both	print and non-print	
*		igital tools assist in	 information by citing resources. use digital tools and online resources to explore a problem or issue affecting children, and discuss possible solutions. describe how technology products, systems, and resources are useful at school, home, and work. state at least three reasons that computers are useful to them and to others. take an assessment regarding safety and appropriateness when using a computer. 		CLASSROOM INTEGRATION
*	technology produ impact every aspe which we live. state that copying not legal or ethica	ect of the world in g "word for word" is al. tanding of the terms			Student will have access to computer stations in the classroom. Students will have access to specific sites for research and will know that they may not copy "word for word" when gathering information from the Internet or any other printed source.
	VOCABULARY		RESOURCES	/MATERIALS	ASSESSMENT/PROJECT
eth adv diss e in En pre	vantage vadvantag nteractive nail	Acceptable Use Policy consequences appropriate inappropriate cyber safety cyber security cyber ethics	Internet Acceptable Use Polic copyright laws cameras scanners webcams computers software as needed	cy	Formative Observe Internet Use State reliable and unreliable Internet sources State technology uses Summative Cyber Safety Assessment

Grade: 3 Unit: Tools I Can / Should Use Time Frame: 7 Lessons

ENI	DURING UNDERSTANDING		ESSENTIAL QUESTION	
*	Technology allows us to display data and information in various ways.		How can we create and share work using technology? How can technology help us make friends and learn more about the	
	KNOWLEDGE		SKILLS	NJCCCS
Stu	idents will know:	Stu	dents will be able to:	0.1.1.1.7
\$ tu \$	technology and digital tools require knowledge and appropriate use of operations related applications. digital tools and mediarich resources enhance creativity and the construction of knowledge. digital tools and environments support the learning process and foster collaboration in solving local or global issues and problems. effective use of digital tools assist in gathering and managing information. information accessed through the use of digital tools assist in generating solutions and making decisions. technology products and systems impact every aspect of the world in which we live.	Stu * * * * * * * * *	determine the benefits of a wide range of digital tools by using them to solve problems. produce a media-rich digital story about a significant local event or issue based on first-person interviews. engage in online discussions with learners in the United States or from other countries to understand their perspective on a global problem or issue. investigate a problem or issue found in the United States and/or another country from multiple perspectives, evaluate findings, and present possible solutions, using digital tools and online resources for all steps. select and apply digital tools to collect, organize, and analyze data that support a scientific finding investigate factors that influence the development and function of technology products and systems. use a digital format, compare and contrast how a technology product has changed over time due to economic, political, and/or cultural influences. all digital tools by completing tasks at multiple stations. produce a media rich presentation on	8.1.4.A.5 8.1.4.B.1 8.1.4.C.1 8.1.4.E.1 8.1.4.F.1 8.2.4.A.1 8.2.4.A.2 CLASSRO OM Teachers will collaborate on a topic of global significance that the students can use as the basis for a multimedia presentation. Students will have access to edit the document from anywhere in the school. Students will have access to all digital tools as needed for any class project at any time in the school day.
		*	a global issue that relates to the current curriculum including data collected . examine a digital tool that has changed over time.	

Grade: 3	Unit: Tools I Can /Should Use	Time Frame:	7 Lessons
VOCABULARY	RESOURCES/MATERIALS	ASSESSMENT/PROJECT	
digital tools	audio recording	digital camera/video	<u>Formative</u>
media rich resources	software microphone Smartboard	S	State best tools for
collaboration digital camera	Sympodium Board Skype/Face to Face	С	project State how
touch screen scanner digital	computer	a	tech product has
video iPod Touch	(disassembled)	n	changed over time
		n	Demonstrate
		e	competence in using
		r	tech tools
		c	Sum

Grade: 3 Unit: Exploring A New World Time Frame: 4 Lessons

ENDURING UNDERSTANDING		ESSENTIAL QUESTION
Technology allows us to communicate in many ways.	*	In a world of constant change, what skills should we learn?
Technology can be a valuable resource to solve problems collaboratively, locally and globally.		How can technology give us ways to talk to others?
conditions, rotally and globally.	*	Why do we use computers in a safe and responsible way?

KNOWLEDGE	SKILLS	NJCCCS
Students will know:	Students will be able to:	81115
	 Students will be able to: determine the benefits of a wide range of digital tools by using them to solve problems. engage in a variety of developmentally appropriate learning activities with students in other classes, schools, or countries using electronic tools. explain the need for each individual, as a member of the global community, to practice cyber safety, cyber security, and cyber ethics when using existing and emerging technologies. explain the purpose of an acceptable use policy and the consequences of inappropriate use of technology. investigate a problem or issue found in the United States and/or another country from multiple perspectives, evaluate findings, and present possible solutions, using digital tools and online resources for all steps. evaluate the accuracy of, relevance to, and appropriateness of using print and non-print electronic information sources to complete a variety of tasks. develop a product using an online simulation that explores the design process. design an alternative use for an existing product. explain the positive and negative effect of products and systems on humans, other 	8.1.4.A.5 8.1.4.C.1 8.1.4.D.1 8.1.4.D.3 8.1.4.E.1 8.1.4.E.2 8.2.4.B.1 8.2.4.D.1 CLASSROOM INTEGRATION Classroom teachers will remind the students of the Acceptable Use Policy that was signed. Students will be reminded of appropriate behavior and safety precautions that need to be practiced when on the computer. Students will be able to edit their computer work from any computer in the school.
	 species, and the environment. compare and contrast how technology transfer happens within a technology, among technologies, and among other fields of study. analyze responses collected from owners/users of a particular product and approach modifications in the design of the 	
	suggest modifications in the design of the product based on their responses. create an avatar and explore a virtual environment.	

VOCABULA	ARY	RESOURCES/MATERIALS	ASSESSMENT/PROJECT
technology digital tools applications environments collaboration global issues ethical behavior scenario avatar virtual world cyber safety cyber community cyber ethics		Internet software (Poptropica, My Make Believe Castle) Acceptable Use Policy	Formative Observe navigation on Internet Discuss product design Observe navigation through virtual environment Summativ e Skype Print created avatar in virtual environment Print product design Technology Transfer Assessment

Grade: 3 Unit: Problem Solving and Sharing Time Frame: 6 Lessons

	ENDURING UNDERSTANDING		ESSENTIAL QUESTION
*	Technology supports learning in all areas through exploring ideas, solving problems, and making meaning.	*	How can we use technology to find information and learn?
*	Technology can be a communication tool that is interactive, creative, and productive.	*	Is there more than one kind of technology tool that can be used to create and share group projects?
		*	How can technology showcase what I have learned?
*	Information can be collected, organized, created, and presented using technological tools.		

KNOWLEDGE	SKILLS	NJCCCS
 digital tools and environments support the learning process and foster collaboration in solving local or global issues and problems. effective use of digital tools assist in gathering and managing information. information accessed through the use of digital tools assist in generating solutions and making decisions. 	 students will be able to: engage in online discussions with learners in the United States or from other countries to understand their perspectives on a global problem or issue investigate a problem or issue found in the United States and/or another country from multiple perspectives, evaluate findings, and present possible solutions, using digital tools and online resources for all steps. evaluate the accuracy of, relevance to, and appropriateness of using print and non-print electronic information sources to complete a variety of tasks. select and apply digital tools to collect, organize, and analyze data that support a scientific finding. choose a topic to review. research and choose information considering the source. create an informational survey about what people know about the topic. create a multimedia presentation showing the truths and untruths about the topic that were found on the Internet. 	8.1.4.C.1 8.1.4.E.1 8.1.4.E.2 8.1.4.F.1 8.2.4.B.1 8.2.4.B.2 8.2.4.B.3 8.2.4.B.4 CLASSROOM INTEGRATION Decide on a topic with the classroom teacher. Students will have access to edit all work from any computer in the school. Students will have access to present multimedia presentation in class or in the lab.

VOCABULARY	RESOURCES/MATERIALS	ASSESSMENT/PROJECT
problem solving design process global problem perspective solution evaluate relevance appropriateness real-world electronic scientific findings	Skype Audacity Wiki Blog http://www.virtualitoy.com Internet sites to create and fix digital toys/music software (Golly Gee Blocks, Contraptions, Even More Contraptions, Kid Pix Studio)	Formative Choice of digital tools State findings of research Summative Digital survey Skype with other students Multimedia presentation

Technological Literacy Curriculum Guide

Grade: 3 Unit: Tools I Now Use! Time Frame: 8 Lessons

ENDURING UNDERSTANDING		ESSENTIAL QUESTION	
*	Technology is constantly changing and requires continuous learning of new skills.	*	Why do I need to know how to type?
*	Selection of technology should be based on the desired end product.	*	Are there basic computer operations that can help me use technology more efficiently?
*	A tool is only as good as the person using it.	*	Why is computer technology important part of everyday life?

KNOWLEDGE	SKILLS	NJCCCS	
Students will know:	Students will be able to:		
technology and digital tools require knowledge and appropriate use of operations and related applications.	 demonstrate effective input of text and data using an input device. create a document with text formatting and graphics using a word processing program. create and present a multimedia presentation that includes graphics. create a simple spreadsheet, enter data, and interpret the information. determine the benefits of a wide range of digital tools by using them to solve problems. 	8.1.4.A.1 8.1.4.A.2 8.1.4.A.3 8.1.4.A.4 8.1.4.A.5 CLASSROOM INTEGRATION Students will have access to the compute lab as a homeroom class. Students will also be able to borrow the digital devices from the lab to use when in the classroom to enhance classroom projects.	

VOCAE	BULARY	RESOURCES/MATERIALS	ASSESSMENT/PROJECT
digital tool application multimedia keyboard keyboarding typing computer monitor touchpad Internet	mouse printer Internet software Smart toys (iPod, MP3, iPod Touch Electronic authoring tool	computer Internet Keyboarding Sites (to be found at Technology teacher websites attached to district websites) Blogs Wikis Tech devices that require keyboarding Microsoft Office Suite of programs Type to Learn Type to Learn 3	Formative Observe input of digital information Summative Print Document Multimedia Presentation Print spreadsheet Type To Learn Level

Grade: 3 Unit: Safety and Honesty Time Frame: 5 Lessons

	 ENDURING UNDERSTANDING ❖ Technology is a communication tool that spans the globe; we have a personal responsibility to use it respectfully, as well as being respectful to other users. ❖ Technology use can have positive or negative impact on both users and those affected by their use. KNOWLEDGE 		ESSENTIAL QUESTION		
			 How do I choose which technological tools to use and when it is appropriate to use them? What are my responsibilities in using technology? Is there ever a time when using another person's ideas are not stealing or cheating? NJCCCS		
St	udents will know:	Students will be able to		1100000	
* * * *	technology and digital tools require knowledge and appropriate use of operations and related applications. technological advancements create societal concerns regarding the practice of safe, legal, and ethical behaviors. effective use of digital tools assist in gathering and managing information. knowledge and understanding of human, cultural, and societal values are fundamental when designing technology systems and products in the global society. rules regarding Internet Safety, cyber ethics, cyber security, copyright, and trademark rules.	digitals tools by us problems. * explain the need for member of the glob practice cyber safer cyber ethics when remerging technology analyze the need for explain the purpose policy and the consinappropriate use or evaluate the accura appropriateness of print electronic inforcomplete a variety explain the impact materials in a responsimpact of trademar businesses. * examine ethical condevelopment and promits inception to marketing, use, mark	or each individual, as a coal community, to try, cyber security, and using existing and gies. or and use of copyrights. The of an acceptable use sequences of the technology. It is of, relevance to, and using print and non-cormation sources to of tasks. of disposing of consible way. The of trademarks and the k infringement on the roduction of a product hrough production, intenance, and eventual there information gathered coriate Cyber Safety test. The presentation simply thics, cyber security,	8.1.4.A.5 8.1.4.D.1 8.1.4.D.2 8.1.4.D.3 8.1.4.E.2 8.2.4.C.1 8.2.4.C.2 8.2.4.C.3 CLASSROOM INTEGRATION Teacher will reinforce rules regarding Internet Safety, cyber ethics, cyber security, copyright, and trademark rules	

VOCABULARY		RESOURCES/MATERIALS	ASSESSMENT/PROJECT
safety	Acceptable Use	Internet	Formative
ethical	Policy	Acceptable Use Policy	Observe Internet Use
advantage	consequences	copyright laws	State reliable and unreliable
disadvantage	appropriate	cameras	Internet sources
interactive	inappropriate	scanners	
Email	cyber safety	webcams	<u>Summative</u>
predator	cyber security	computers	Cyber Media Presentation
digital tools –	cyber ethics	software as needed	Cyber Safety Assessment
camera, webcam,			
scanner, computer			

Grade: 4 Unit: Using the Tools of the Trade! Time Frame: 7 Lessons

	ENDURING UNDERSTANDING		ESSENTIAL QUESTION
*	Technology allows us to display data and information in various ways.	*	How can we create and share work using technology?
*	Technology can be a communication tools that is interactive, creative, and productive.	*	How can technology help us make friends and learn more about the world around us?

KNOWLI	EDGE	SKILLS	NJCCCS
Students will know:	<u> </u>	Students will be able to:	
Students will know: technology and digital tools require knowledge and appropriate use of operations related applications. digital tools and media-rich resources enhance creativity and the construction of knowledge. digital tools and environments support the learning process and foster collaboration in solving local or global issues and problems. effective use of digital tools assist in gathering and managing information. information accessed through the use of digital tools assist in generating solutions and making decisions. technology products and systems impact every aspect of the world in which we live.		 determine the benefits of a wide range of digital tools by using them to solve problems. produce a media-rich digital story about a significant local event or issue based on first-person interviews. engage in online discussions with learners in the United States or from other countries to understand their perspective on a global problem or issue. investigate a problem or issue found in the United States and/or another country from multiple perspectives, evaluate findings, and present possible solutions, using digital tools and online resources for all steps. select and apply digital tools to collect, organize, and analyze data that support a scientific finding investigate factors that influence the development and function of technology products and systems. using a digital format, compare and contrast how a technology product has changed over time due to economic, political, and/or cultural influences. use all digital tools by completing tasks at multiple stations. produce a media rich presentation on a global issue that relate to the current curriculum including data collected for the presentation. examine a digital tool that has changed over time. 	8.1.4.A.5 8.1.4.B.1 8.1.4.C.1 8.1.4.E.1 8.1.4.F.1 8.2.4.A.1 8.2.4.A.2 CLASSROOM INTEGRATION Teachers will collaborate on a topic of global significance that the students can use as the basis for a multimedia presentation. Students will have access to edit the document from anywhere in the school. Students will have access to all digital tools as needed for any class project at any time in the school day.
VOCABU	LARY	RESOURCES/MATERIALS	ASSESSMENT/PROJECT
digital tools media rich resources collaboration digital damera touch screen scanner digital video iPod Touch audio recording software microphone Smartboard Sympodium Board Skype/Face to Face computer (disassembled)		digital camera/video scanner computer Internet Skype Webcam Wiki/Blog software (PowerPoint, MS Word, Publisher)	Formative State benefits of technology tools Demonstrate competence in using digital tools Summative Skype Presentation

ROCHELLE PARK TOWNSHIP SCHOOL DISTRICT Technological Literacy Curriculum Guide

Grade: 4 Unit: Virtually Connecting Time Frame: 5 Lessons

	ENDURING UNDERSTANDING		ESSENTIAL QUESTION
*	Technology allows us to communicate in many ways.	*	In a world of constant change, what skills should we learn?
*	Technology can be a valuable resource to solve problems collaboratively, locally and globally.	*	How can technology give us ways to talk to others?
	, , , , , , , , , , , , , , , , , , ,	*	Why do we use computers in a safe and responsible way?

	KNOWLEDGE	SKILLS	NJCCCS
Stu	idents will know:	Students will be able to:	
*	technology and digital tools require knowledge and appropriate use of operations and related applications. digital tools and environments support the learning process and foster collaboration in solving local or global issues and problems.	 determine the benefits of a wide range of digital tools by using them to solve problems. engage in a variety of developmentally appropriate learning activities with students in other classes, schools, or countries using electronic tools. 	8.1.4.A.5 8.1.4.C.1 8.1.4.D.1 8.1.4.D.3 8.1.4.E.1 8.1.4.E.2 8.2.4.B.1
*	technological advancements create societal concerns regarding the practice of safe, legal, and ethical behaviors.	explain the need for each individual, as a member of the global community, to practice cyber safety, cyber security, and cyber ethics when using existing and	8.2.4.D.1
*	effective use of digital tools assist in gathering and managing information. the design process is a systematic	 emerging technologies. explain the purpose of an acceptable use policy and the consequences of 	CLASSROOM INTEGRATION
*	approach to solving problems. information-literacy skills, research, data analysis, and prediction provide the basis for the effective design of technology systems.	inappropriate use of technology. investigate a problem or issue found in the United States and/or another country from multiple perspectives, evaluate findings, and present possible solutions, using digital tools and online resources for all steps. vealuate the accuracy of, relevance to, and appropriateness of using print and non-print electronic information sources to complete a variety of tasks.	Provide access to electronic and non-electronic research information. Give students age appropriate opportunities to explore virtual environments
		 develop a product using an online simulation that explores the design process. design an alternative use for an existing product. explain the positive and negative effect of an explaints and systems on hymonometrics. 	
		products and systems on humans, other species, and the environment. compare and contrast how technology transfer happens within a technology, among technologies, and among other fields of study.	
		 analyze responses collected from owners/users of a particular product and suggest modifications in the design of the product based on their responses. create an Avatar. Explore a virtual site with the avatar. 	

VOCABULARY		RESOURCES/MATERIALS	ASSESSMENT/PROJECT
technology digital tools applications environments collaboration global issues ethical behavior scenario avatar virtual world cyber safety cyber community cyber ethics		Internet software (Poptropica, My Make Believe Castle) Acceptable Use Policy	Formative Observe navigation on Internet State most appropriate tools for research Observe navigation through virtual environment Summative Skype Print avatar Print product design Technology Transfer Assessment

ROCHELLE PARK TOWNSHIP SCHOOL DISTRICT Technological Literacy Curriculum Guide

Grade: 4 Unit: Problem Solving On The Net Time Frame: 7 Lessons

ENDURING UNDERSTANDING		ESSENTIAL QUESTION	
 Technology supports learning in all are exploring ideas, solving problems, and Technology can be a communication to creative, and productive. Information can be collected, organized presented using technological tools. KNOWLEDGE 	making meaning. ool that is interactive, d, created, and	 How can we use technology to find information and learn? Is there more than one kind of technology tool that can be used to create and share group projects? How can technology showcase what I have learned? SKILLS NJCCCS	
			1.0000
 digital tools and environments support the learning process and foster collaboration in solving local or global issues and problems. effective use of digital tools assist in gathering and managing information. information accessed through the use of digital tools assist in generating solutions and making decisions. the design process is a systematic approach to solving problems. information-literacy skills, research, data analysis, and prediction provide the basis for the effective design of technology systems. 	the United States understand their problem or issue investigate a pro United States an multiple perspect present possible and online resout evaluate the accurance appropriateness electronic informatic variety of tasks. select and apply organize, and an scientific finding develop a product that explores the design an alternative product. explain the positive products and system species, and the compare and contransfer happens technologies, an analyze response owners/users of suggest modification product based on brainstorm technologies. time United States understand the service of suggest modification in the United States accuracy create and adminitopic.	e discussions with learners in sor from other countries to perspectives on a global sublem or issue found in the d/or another country from etives, evaluate findings, and solutions, using digital tools arces for all steps. The properties of the solution	8.1.4.C.1 8.1.4.E.1 8.1.4.E.2 8.1.4.F.1 8.2.4.B.1 8.2.4.B.3 8.2.4.B.4 8.2.4.D.1 CLASSROOM INTEGRATION Teacher will work in conjunction with the technology teacher. Students will have an opportunity to do research in the classroom as well as in the lab.

VOCABULARY		RESOURCES/MATERIALS	ASSESSMENT/PROJECT
problem solving design process global problem perspective solution evaluate relevance appropriateness real-world electronic	authoring tool summarize contraption	Skype Audacity Wiki Blog http://www.virtualitoy.com Internet sites to create and fix digital toys/music Software (Golly Gee Blocks, Contraptions, Even More Contraptions, Kid Pix Studio)	Formative State findings of research Observe use of the design process Summative Digital survey Skype Print design Presentation of design

Technological Literacy Curriculum Guide

Grade: 4 Unit: Putting it All Together: Word Processing Time Frame: 6 Lessons

ENDURING UNDERSTANDING			ESSENTIAL QUESTION
*	Technology is constantly changing and requires continuous learning of new skills.	*	Why do I need to know how to type?
*	Selection of technology should be based on the desired end product.	*	Are there basic computer operations that can help me use technology more efficiently?
*	A tool is only as good as the person using it.	*	Why is computer technology important part of everyday life?

KNOWLEDGE	SKILLS	NJCCCS
 technology and digital tools require knowledge and appropriate use of operations and related applications. digital tools and media-rich resources enhance creativity and the construction of knowledge. 	 ❖ demonstrate effective input of text and data using an input device. ❖ create a document with text formatting and graphics using a word processing program. ❖ create and present a multimedia presentation that includes graphics. ❖ create a simple spreadsheet, enter data, and interpret the information. ❖ determine the benefits of a wide range of digital tools by using them to solve problems. ❖ produce a media-rich digital story about a significant local event or issue based on first-person interviews. ❖ create documents in a word processing program that include text formatting, clip art, digital images imported from a digital camera. ❖ create a media-rich digital presentation that includes all of the items above. (The content will relate to a significant local event or be based first person interviews) ❖ access several databases. ❖ create a simple database. 	8.1.4.A.1 8.1.4.A.2 8.1.4.A.3 8.1.4.A.4 8.1.4.A.5 CLASSROOM INTEGRATION The topics chosen will integrate with the classroom science and/or social curriculum. Students will have access to compose and edit work from the classroom.
VOCABULARY	· RESOURCES/MATERIALS	ASSESSMENT/PROJECT

digital tool	mouse	computer	
application	printer	Internet Keyboarding Sites (to be found at	<u>Formative</u>
multimedia	Internet software	Tech teacher websites attached to district	Observe use of electronic authoring
keyboard	Smart toys (iPod,	websites)	tool(s)
keyboarding	MP3, iPod Touch	Blogs	
typing	Wiki	Wikis	Summative
computer	Blog	tech devices that require keyboarding	Print document
monitor	Electronic	Microsoft Office Suite of programs	Multimedia presentation
touchpad	authoring tool	Type to Learn	Type To Learn Level
Internet		Type to Learn 3	
			!

Grade: 4 Unit: Safety and Ethics on the Net Time Frame: 5 Lessons

	ENDURING UNDERSTAN	IDING	ESSENTIAL QUESTION		
*	Technology is a communication tool that spans the globe; we have a personal responsibility to use it respectfully, as well as being respectful to other users. Technology use can have positive or negative impact on both users and those affected by their use.		 How do I choose which technological tools to use and when it is appropriate to use them? What are my responsibilities in using technology? Is there ever a time when using another person's ideas are not stealing or cheating? 		
	KNOWLEDGE	SKI	LLS	NJCCCS	
Stu	idents will know:	Students will be able	e to:	01445	
*	support the learning process and foster collaboration in solving local or global issues and problems. effective use of digital tools assist in gathering and managing information.	to solve problem explain the need as a member of t community, to p cyber security, a when using exist technologies. analyze the need copyrights. explain the purpo use policy and th inappropriate use evaluate the accu- to, and appropria	tools by using them as. for each individual, the global ractice cyber safety, and cyber ethics ting and emerging for and use of the consequences of the consequences of the of technology. In acy of, relevance atteness of using print tectronic information	8.1.4.A.5 8.1.4.D.1 8.1.4.D.2 8.1.4.D.3 8.1.4.E.2 8.1.4.F.1 8.2.4.C.2 8.2.4.C.3 8.2.4.G.3 CLASSROOM INTEGRATION Students will incorporate what they have learned about cyber ethics and safety when using a computer.	
	means to convert resources into products and systems.	that support a sc that support a sc explain the purport and the impact of infringement on examine ethical of development and product from its production, mark maintenance, and by consumers the evaluate the function esthetics of a tect system, environ perspective of the producer. take a written or assessment on C	e, and analyze data ientific finding. ose of trademarks of trademark businesses. considerations in the d production of a inception through keting, use, d eventual disposal etion, value, and hnological product, ment from the the user and the Smart Response byber issues bullying, Creative		

VOCABULARY		RESOURCES/MATERIALS	ASSESSMENT/PROJECT
safety	Acceptable Use	internet	Formative
ethical	Policy	Acceptable Use Policy	Observe Internet Use
advantage	consequences	copyright laws	State reliable and unreliable Internet
disadvantage	appropriate	cameras	sources
interactive	inappropriate	scanners	
Email	cyber safety	webcams	<u>Summative</u>
predator	cyber security	computers	Cyber Issues Assessment
digital tools -	cyber ethics	software as needed	Print a factual article
camera, webcam,	firewall		Print a false/bogus article
scanner, computer			

Grade: 5 Unit: Digital Creations Time Frame: 6 Lessons

ENDURING UNDERSTANDING		ESSENTIAL QUESTION	
*	Technology allows us to display data and information in various ways.	*	How can we create and share work using technology? How can technology help us make friends and learn more
*	Technology can be a communication tools that is interactive, creative, and productive.		about the world around us?

KNOWL	EDGE	SKILLS	NJCCCS
rich resources er and the construc knowledge.	digital tools ge and of operations ons. I tools and media- nhances creativity tion of digital tools assist managing environments ning process and ion in solving ssues and litate local and cation and designing	 create a multimedia presentation including sound and images. select and use appropriate tools and digital resources to accomplish a variety of tasks and to solve problems. synthesize and publish information about a local or global issue or event on a collaborative, webbased service (also known as a shared hosted service). gather and analyze findings using data collection technology to produce a possible solution for a content-related or real-world problem. gather and analyze findings using data collection technology to produce a possible solution for a content-related or real-world problem. work in collaboration with peers and experts in the field to develop a product using the design process, data analysis, and trends, and maintain a digital log with annotated sketches to record the development cycle. survey school and global community to decide what should be done graph findings of survey create product using a simplified version of the design process that relates to survey findings 	8.1.8.A.3 8.1.8.A.5 8.1.8.B.1 8.1.8.C.1 8.1.8.E.1 8.2.8.E.1 CLASSROOM INTEGRATION Science, classroom and homeroom teachers will collaborate on a curriculum science topic. The students will create a multimedia presentation with imbedded survey data.
VOCABU	JLARY	RESOURCES/MATERIALS	ASSESSMENT/PROJECT
media rich resources collaboration global issues synthesize web-based service global issues synthesize web-based service global issues synthesize web-based service scanner computer Internet Skype webcam Wiki/Blog		computer Internet Skype webcam	Formative State chosen topic List data collection tools Summative Multimedia Presentation Printed graphs Printed design sample

Grade: 5 Unit: Exploring the Virtual Internet Time Frame: 5 Lessons

ENDURING UNDERSTANDING		ESSENTIAL QUESTION	
 Technology allows us to co Technology can be a valual collaboratively, locally and 	ble resource to solve problems	* *	In a world of constant change, what skills should we learn? How can technology give us ways to talk to others? Why do we use computers in a safe and responsible way?

KNOW	LEDGE	SKILLS	NJCCCS
 digital tools and environments support the learning process and foster collaboration in solving local or global issues and problems. effective use of digital tools assist in gathering and managing information. information accessed through the use of digital tools assist in generating solutions and making decisions. 		 \$\text{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. investigate a problem or issue found in the United States and/or another country from multiple perspectives, evaluate findings, and present possible solutions, using digital tools and online resources for all steps. evaluate the accuracy of, relevance to, and appropriateness of using print and non-print electronic information sources to complete a variety of tasks. 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. visit and explore a virtual site using an avatar 	8.1.8.C.1 8.1.8.E.1 8.1.4.E.2 8.1.8.F.1 CLASSROOM INTEGRATION Provide access to electronic and non-electronic research information. Give students to age appropriate opportunities to explore virtual environments
VOCAB	BULARY	RESOURCES/MATERIALS	ASSESSMENT/PROJECT
technology digital tools applications environments collaboration global issues ethical behavior scenario avatar virtual world		Internet software (Poptropica, My Make Believe Castle) Acceptable Use Policy	Formative Observe navigation on Internet State most appropriate tools for research Observe navigation in virtual world Summative Skype Print findings of investigation using electronic authoring tools Print avatar in virtual environment

Grade: 5 Problem Solving Digitally Unit: **Time Frame:** 7 Lessons

	ENDURING UNDERSTANDING		ESSENTIAL QUESTION
*	Technology supports learning in all areas through exploring ideas, solving problems, and making meaning.	*	How can we use technology to find information and learn?
*	Technology can be a communication tool that is interactive, creative, and productive.	*	Is there more than one kind of technology tool that can be used to create and share group projects?
		*	How can technology showcase what I have learned?
*	Information can be collected, organized, created, and presented using technological tools.		

presented using technological tools.			
KNOWLEDGE	Sk	KILLS	NJCCCS
Students will know:	Students will be able to:		8.1.8.A.5
 technology and digital tools require knowledge and appropriate use of operations and related applications. select and use appropriate appropriate of tasks and to solve properties. 		to accomplish a variety	8.1.8.C.1 8.1.8.E.1 8.2.8.B.1
digital tools and environments support the learning process and foster collaboration in solving local or global issues and problems.	countries to unde	online learning learners from other rstand their perspectives em or issue, and propose	8.2.8.B.2 8.2.8.B.3 8.2.8.C.1 8.2.8.C.2
 effective use of digital tools assist in gathering and managing information. 	possible solution: gather and analyze collection technology.	s. ze findings using data logy to produce a	8.2.8.D.1
the design process is a systematic approach to solving problems.	real-world proble		
 knowledge and understanding of human, cultural, and societal values are fundamental when designing 	a real-world prob	a product that addresses dem using the design ding with specific criteria	CLASSROOM INTEGRATION
 technology systems and products in the global society. information-literacy skills, research, data analysis, and prediction provide 	identify the design offs involved in contract.	n constraints and trade- lesigning a prototype ototype might fail and	In discussing the regular social studies or science curriculum the teacher will share some global issues
the basis for the effective design of technology systems. the 8 steps of the Design Process	how it might be i a design problem a multimedia pre	mproved) by completing and reporting results in	that affect people in other countries and cultures. Students will brainstorm ideas that could help to rectify
1 Research2Conceptualization3 Feasibility Assessment	and build a proto	ased design challenge type using science and hroughout the design	problems. Students will be told that they will have an opportunity to create/design an item that could be helpful in a country in need.
4 Establishing the Design Requirements	explain the need process of register	=	Students will have access to their creations from the classrooms and can edit their work once it is started
5 Preliminary Design 6 Detailed Design 7 Production Planning and Tool Design	incidences of eth labor in the Unite country and prese	trast current and past ical and unethical use of ed States or another ent results in a media-	in the computer lab.
8Production		of ethics and bias on d prediction in the	
		product that impacts he United States and/or	
	crafted to help so	ice, item that could be live the global issue. label their invention in a	
	0 .	and use the design plan.	

VOCABULARY		RESOURCES/MATERIALS	ASSESSMENT/PROJECT
problem solving design process global problem perspective solution evaluate relevance appropriateness real-world electronic Kid Pix Studio Online Learning Community	authoring tool summarize Contraption Patent Prototype Design Process	Skype Audacity Wiki Blog http://www.virtualitoy.com Internet sites to create and fix digital toys/music Software (Golly Gee Blocks, Contraptions, Even More Contraptions, Kid Pix Studio)	Formative State findings of research Observe use of the design process Summativ e Skype Print design Multimedia Presentation

Technological Literacy Curriculum Guide

Grade: 5 Unit: Publishing Time Frame: 5 Lessons

	ENDURING UNDERSTANDING		ESSENTIAL QUESTION
*	Technology is constantly changing and requires continuous learning of new skills.	*	Why do I need to know how to type?
*	Selection of technology should be based on the desired end product.	*	Are there basic computer operations that can help me use technology more efficiently?
*	A tool is only as good as the person using it.	*	Why is computer technology important part of everyday life?

KNOWLEDGE	SKILLS	NJCCCS
 Students will know: technology and digital tools require knowledge and appropriate use of operations and related applications. digital tools and media-rich resources enhance creativity and the construction of knowledge. information accessed through the use of digital tools assist in generating 	 Students will be able to: create professional documents (e.g., newsletter, personalized learning plan, business letter or flyer) using advanced features of a word processing program. plan and create a simple database, define fields, input data, and produce a report using sort and query. create a multimedia presentation including 	NJCCCS 8.1.8.A.1 8.1.8.A.2 8.1.8.A.3 8.1.8.A.4 8.1.8.B.1 8.1.8.F.1
solutions and making decisions.	sound and images. generate a spreadsheet to calculate, graph, and present information. 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). 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. create a PowerPoint about a topic chose by the classroom teacher that is in line with the ROCHELLE PARK curriculum. incorporate sound images and graph. Share data on a collaborative web based source. create a professional looking document using advance word features. (e.g., newsletter, personalized learning plan, business letter or flyer) create a database. Demonstrate its functionality.	CLASSROOM INTEGRATION Teacher can offer student the option of presenting/reporting classroom work in these digital formats. All created documents in the lab may be edited from the classroom. All topics will be related to the current curriculum items being taught in the classroom.

VOCABULARY		RESOURCES/MATERIALS	ASSESSMENT/PROJECT
digital tool application multimedia keyboard keyboarding typing computer monitor touchpad Internet Microsoft Excel Microsoft Word Microsoft PowerPoint	mouse printer Internet software Smart toys (iPod, MP3, iPod Touch Wiki Blog Electronic authoring tool Microsoft Access/Data	computer Internet Keyboarding Sites (to be found at Tech teacher websites attached to district websites) Blogs Wikis tech devices that require keyboarding Microsoft Office Suite of programs Microsoft Data Type to Learn Type to Learn 3	Formative Observe use of electronic authoring tool(s) Observe Internet Use Summative Print Document Type To Learn Level Multimedia Presentation Post to Shared Hosted Service Share Database

Grade: 5 Unit: Your Responsibility and the Internet Time Frame: 7 Lessons

ENDURING UNDERSTANDING		ESSENTIAL QUESTION	
*	Technology is a communication tool that spans the globe; we have a personal responsibility to use it respectfully, as well as being respectful to other users.	*	What are an individual's responsibilities for using technology?
*	Technology use can have positive or negative impact on	*	What constitutes misuse and how can it best be prevented?
	both users and those affected by their use.	*	What is intellectual property?

KNOWLEDGE	SKILLS	NJCCCS
 technology and digital tools require knowledge and appropriate use of operations and related applications. technological advancements create societal concerns regarding the practice of safe, legal, and ethical behaviors. knowledge and understanding of human, cultural, and societal values are fundamental when designing technology systems and products in the global society. information-literacy skills, research, data analysis, and prediction provide the basis for the effective design of technology systems. 	 \$ select and use appropriate tools and digital resources to accomplish a variety of tasks and to solve problems. \$ model appropriate online behaviors related to cyber safety, cyber bullying, cyber security, and cyber ethics. \$ summarize the application of fair use and Creative Commons guidelines. \$ demonstrate how information on a controversial issue may be biased. \$ explain the need for patents and the process of registering one. \$ compare and contrast current and past incidences of ethical and unethical use of labor in the United States or another country and present results in a media-rich presentation. \$ evaluate the role of ethics and bias on trend analysis and prediction in the development of a product that impacts communities in the United States and/or other countries. 	8.1.8.A.5 8.1.8.D.1 8.1.8.D.2 8.1.8.D.3 8.2.8.C.1 8.2.8.C.2 8.2.8.D.1 CLASSROOM INTEGRATION Students will incorporate what they have learned about cyber ethics and safety when using a computer.

VOCABULARY		RESOURCES/MATERIALS	ASSESSMENT/PROJECT
safety	Acceptable Use	Internet	<u>Formative</u>
ethical	Policy	Acceptable Use Policy	Observe Internet Use
advantage	consequences	copyright laws	Observe choices of Internet tools
disadvantage	appropriate	cameras	
interactive	Inappropriate	scanners	<u>Summative</u>
Email	cyber safety	webcams	Printed Survey
predator	cyber security	computers	Cyber Issues Assessment
digital tools –	cyber ethics	software as needed	
camera, webcam,	firewall		
scanner, computer			

Grade: 6 Unit: Microsoft Publisher Time Frame: 4 Periods

ENDURINGUNDERSTAN	NDING	* How do I choose which technological tools to use and		
 Technology is constantly changing and learning of new skills. Selection of technology should be base career needs assessment A tool is only as good as the person us 	ed on personal and/or			
KNOWLEDGE	SKI	LLS	NJCCCS	
 ★ Microsoft Publisher and Microsoft Word can produce a finished document using a template with text and tables. ★ saving as a PDF document has some advantages over saving it as a text document. ★ many software programs have help systems built in to support the end user. ★ a checklist can help focus and face work to ensure a long-range project is completed on time. 	adjust text flow asave in PDF form	ion type. image objects. fy text. objects. objects. fills. first word of text. around image. nat. ublisher to create a ead, custom	CLASSROOM INTEGRATION Microsoft Publisher Microsoft Word	
VOCABULARY	RESOURCES	/MATERIALS	ASSESSMENT/PROJECT	
desktop publishing template style format page layout	MS Publisher Netop School V6.2 - Application	Image Sharing	Formative Checklists for Task Completion Formal and Informal Student Observations Dialogue, Reflection and Feedback Summative Authentic Assessment: Career Interest – Develop Business Stationary	

Technological Literacy Curriculum Guide

Grade: 6 Unit: Classroom Rules & Procedures: Intro to the Computer Lab Time Frame: 4 Periods

ENDURING UNDERSTA	NDING	ESSENTIAL QUESTION		
 Technology use can have positive or negative impact on both users and those affected by their use. Organizing information on a computer makes it more efficient and readily accessible. 		 What are an individual's responsibilities for using technology? What constitutes misuse and how can it best be prevented? Are there basic computer operations that can help me use technology more efficiently? 		
KNOWLEDGE	KNOWLEDGE SK		NJCCCS	
 the expected classroom and online behaviors and procedures including internet safety, District Acceptable Use Policy, and personal safety. the basics of using a desktop and folders to store and organize files and different storage locations. a checklist can help focus and face work to ensure a long-range project is completed on time. 	behaviors. or endorse Accept follow safe prac access and login save and access resources on the devices. locate network of	practice proper ethical computer able Use Policy tices. In to the network, saved files and enetwork or USB drives. Propriate care for conents. In p of data.	8.1.8.D.1 8.1.8.D.2 8.1.8.D.3 CLASSROOM INTEGRATION Practices-skills applicable to school-wide computer use.	
VOCABULARY	RESOURCES	S/MATERIALS	ASSESSMENT/PROJECT	
Acceptable Use Policy network login hardware CD backup	Acceptable Use Polinetworked computer Netop School V6.2 - Application		Formative Classroom and Peer Discussions Checklists for Task Completion Formal and Informal Student Observations	

Grade: 6 Unit: Touch Typing-Mavis Beacon & Learning.com Typing Time Frame: 16 Periods

	ENDURING UNDERSTAN	IDING	E	SSENTIAL QUESTION	
 Technology is constantly changing and requires continuous learning of new skills. Selection of technology should be based on personal and/or career needs assessment A tool is only as good as the person using it. 			How do I choose which technological tools to use and		
	KNOWLEDGE	SKI	LLS	NJCCCS	
St	udents will know:	Students will be abl	e to:		
* * * * * *	the importance of the shift key and the characters that can be accessed through its use. correct posture is essential to decrease the possibility of injury due to computer use which is becoming more prevalent in today's society. the importance of being able to access mathematical symbols and how to use them properly within a document. keyboarding shortcuts and that they can increase one's productivity. the importance of speed and accuracy when keyboarding. a checklist can help focus and face work to ensure a long-range project is completed on time. keyboarding is an essential skill for productivity and efficiency in the 21st Century workplace.	home row. identify the differ importance behi caps lock key. identify and use number keys accurring the shift keys accurring the shift keys accurring to the shift keys complete keybor return and shift in proper posture a identify mathem (*,*,*/). use the numerical inputting number in the various continuity to the various continuity the shift in	special characters on ressible through ey i.e. !@#\$%^&*(). arding for alphabet, with accuracy and nd fingering. ratical symbols (+, - al keypad for rs. e of the. short-cut keys used imputer programs. or more words per ccuracy using proper	8.1.8 A.1 8.1.8 A.2 8.1.8 A.3 CLASSROOM INTEGRATION Keyboarding-typing applicable to all computer equipped classrooms	
	VOCABULARY	RESOURCES	/MATERIALS	ASSESSMENT/PROJECT	
home row numeric keypad		Mavis Beacon Teach NimbleFingers.com Learning.com Keybo Netop School V6.2 - Application	parding	Formative Checklists for Task Completion Formal and Informal Student Observations Program Performance Tracking Dialogue, Reflection and Feedback Summative Typing Assessment Online Assessment Keyboarding Assessment Speed/Accuracy Assessment	

Grade: 6 Unit: Microsoft Digital Image Editor MSDIE Time Frame: 4 Periods

ENDURING UNDERSTANDING		ESSENTIAL QUESTION	
 Technology is constantly changing and requires continuous learning of new skills. Selection of technology should be based on personal and/or career needs assessment A tool is only as good as the person using it. 		 In a world of constant change, what skills should we learn? How do I choose which technological tools to use and when it is appropriate to use them? How can I transfer what I know to new technological situations/experiences? 	
KNOWLEDGE	SKI	LLS	NJCCCS
 there are many images stored online for consumer use that can be used and stored. working with images uses many different skills and tools which can enhance the image to derive the greatest benefit from its use. a checklist can help focus and face work to ensure a long-range project is completed on time. 	render facial imag	s. l. images. l. l. rs. ultiples. gital Image Editor to	CLASSROOM INTEGRATION Microsoft Digital Image Editor Microsoft Word
VOCABULARY	RESOURCES	/MATERIALS	ASSESSMENT/PROJECT
clone filter select red eye blend sepia zoom/enlarge	Microsoft Digital Ima JPEG images Netop School V6.2 - Application		Formative Checklists for Task Completion Formal and Informal Student Observations Display/Print Edited Image Dialogue, Reflection and Feedback Summative Authentic Assessment - Portrait: Facial Picture Project

Grade: 6 Unit: Microsoft PowerPoint Time Frame: 2 Periods

ENDURING UNDERSTAN	NDING	ESSENTIAL QUESTION		
Digital tools provide enhanced opportunities to design innovative solutions, and express ideas creatively.		 How can digital tools be used for creating original and innovative works, ideas, and solutions? How can technology showcase what I have learned? How can technology enhance a presentation? 		
KNOWLEDGE	SKI	LLS	NJCCCS	
 \$\delta\$ a PowerPoint presentation is one of many ways for people to support discussions with visual support. \$\delta\$ one can enhance the effectiveness of a PowerPoint presentation through use of clip art and animation techniques. \$\delta\$ when distributing printouts of PowerPoint slides should be used to support the presentation. \$\delta\$ a checklist can help focus and face work to ensure a long-range project is completed on time. 	Students will be able to: create, save and present a PowerPoint presentation to a group. use pictures and animation from clip art. use help and template functions. use color, background, effects and sound. create and print handouts. create header/footer to file. add sound effects to presentation. revise the slid design and theme.		8.1.8.A.3 8.1.8.B.1 CLASSROOM INTEGRATION Microsoft PowerPoint Microsoft Word	
VOCABULARY	RESOURCES	/MATERIALS	ASSESSMENT/PROJECT	
PowerPoint presentation slides graphics formatting clipart animation layout sound effects design	PowerPoint Clip Art library Netop School V6.2 - Image Sharing Application		Formative Checklists for Task Completion Formal and Informal Student Observations Dialogue, Reflection and Feedback Summative PowerPoint Project	

Grade: 6 Unit: EMAIL Time Frame: 1 Period

	ENDURING UNDERSTAN	NDING	ESSENTIAL QUESTION		
*	Digital tools allow for communication anytime/anyplace worldwide. Email is an essential skill in today's so must be used properly.		 How has the use of digital tools improved opportunities for communication and collaboration? How are computers a communication tool, and how far does it reach? 		
	KNOWLEDGE	SKI	LLS	NJCCCS	
\$ * * * * * * * * * * * * * * * * * * *	authoring an email using proper etiquette is an essential 21 st Century skill. using email by accessing an address book and including attachments makes it a more powerful form of communication. chat systems are embedded in many programs and can improve communication in our global community. in using email, they have a responsibility to use it appropriately and with proper etiquette. the use of emoticons and electronic shorthand is only appropriate in certain situations and should not become a replacement for standard	 \$\text{open an email application.}\$ attach a file. remove a file. add a file. access recipients from address book. create & save an email draft. chat with a colleague or associate. 		8.1.8.A.5 8.1.8.C 1 CLASSROOM INTEGRATION Use of email-Demonstration:: ROCHELLE PARK EMAIL GMAIL	
we hyj rep ser	d	RESOURCES. Internet Access Email service Poll Everywhere.com Netop School V6.2 - Application		ASSESSMENT/PROJECT Formative checklists for task completion formal and informal student observations dialogue, reflection and feedback Summative	
spam delete drafts e- mail etiquette attachment				Assessment: Email and Attachments, Question and Answer	

Grade: 6 Unit: Internet Browser Skills Time Frame: 1 Period

	ENDURING UNDERSTAN	NDING	ESSENTIAL QUESTION			
 Technology is constantly changing and requires continuous learning of new skills. Selection of technology should be based on personal and/or career needs assessment A tool is only as good as the person using it. 			 In a world of constant change, what skills should we learn? How do I choose which technological tools to use and when it is appropriate to use them? How can I transfer what I know to new technological situations/experiences? 			
	KNOWLEDGE	SKI	LLS	NJCCCS		
Stı	idents will know:	Students will be abl	e to:			
* * *	 the importance of surfing the internet safely. the benefits of customizing their chosen web browser by organizing favorites, using helper applications, browser applications and setting a homepage. toolbars help facilitate efficient surfing of the web. computers track their every click on the web and is saved for future retrieval. the purpose and effectiveness of the various toolbars that software producers offer. a checklist can help focus and face work to ensure a long-range project is completed on time. Students will be ab. use favorites (for use the Go ment wase, add and remaining their chosen web for manage bookmath download and use software: Mozill was ave a webpage turn Cookies on seat a URL as help turn on pop-up to complete an onlinternet browsing their chosen was added to use, add and remaining their chosen was added to manage bookmath download and use software: Mozill was ave a webpage turn Cookies on seat a URL as help turn on pop-up to complete an onlinternet browsing their chosen was a webpage turn Cookies on seat a URL as help turn on pop-up to complete an onlinternet browsing their chosen was a use, add and remaining their chosen was a webpage turn Cookies on seat a URL as help turn on pop-up to complete an onlinternet browsing their chosen was a webpage turn Cookies on seat a URL as help turn on pop-up to complete an onlinternet browsing their chosen was a webpage turn Cookies on seat a URL as help turn on pop-up to complete an onlinternet browsing their chosen was a webpage turn Cookies on seat a URL as help turn on pop-up to complete an onlinternet browsing their chosen was a webpage turn Cookies on seat a URL as help turn on pop-up to complete an onlinternet browsing their chosen was a webpage turn Cookies on seat a URL as help turn on pop-up to complete an onlinternet browsing their chosen was a webpage turn Cookies on the turn on pop-up to complete an onlinternet browsing their chosen was a webpage turn Cookies on the t		rks. se alternate browser a, Chrome, Safari. and off. omepage. clocker. ne assessment on	CLASSROOM INTEGRATION Web browsers: Google Chrome Internet Explorer Mozilla Firefox		
			/MATERIALS	ASSESSMENT/PROJECT		
Ac fav sea hel	ernet ceptable Use Policy corites/bookmarks arch engine p menus olbars okies RL	Internet access list of appropriate sea Acceptable Use Polic Netop School V6.2 - Application	су	Formative Checklists for Task Completion Formal and Informal Student Observations Display Navigation in Web Browser; Bookmark Use. Dialogue, Reflection and Feedback Summative Online Assessment – Question and Answer		

Grade: 6 Unit: Mapping Software Time Frame: 3 Periods

	ENDURING UNDERSTAN	DING	ESSENTIAL QUESTION		
Information is spread worldwide within seconds due technological advancements and has an immediate in			 Why is the evaluation and appropriate use of accommodified information more important than ever in the technage? How can learn about the world around us? 		
	KNOWLEDGE	SKI	LLS	NJCCCS	
* navigating using Google Earth, Google Maps, and Mapquest can help them explore the world around them. * it is important to manipulate the view in navigation programs to retrieve desired information. * the information on the internet is not always accurate and checking validity of information is essential. * there are many examples of free software and applications that can be accessed that contain mapping capabilities. * NOAA is the National Oceanic and Atmospheric Administration (NOAA) which is a federal agency focused on the condition of the oceans and the atmosphere. a checklist can help focus and face work to ensure a long-range project is completed on time.		SKILLS Students will be able to:		8.1.8.E.1 8.1.8.A.5 CLASSROOM INTEGRATION Google Earth Google Maps Mapquest NOAA	
	VOCABULARY	RESOURCES	/MATERIALS	ASSESSMENT/PROJECT	
sat tra ma stre lor lati azi	gman ellite view ffic view p view eet vie egitude itude muth	Google maps Yahoo maps GoogleEarth NOAA.gov Netop School V6.2 - Application	Image Sharing	Formative Checklists for Task Completion Formal and Informal Student Observations Dialogue, Reflection and Feedback Summative Google Maps Assessment: Determine location on virtual map. Assessment- Terms and Usage	

Grade: 6 Unit: Word Processing (MS Word) Time Frame: 4 Periods

	ENDURING UNDERSTAN	IDING	ES	ESSENTIAL QUESTION	
*	Technology is constantly changing and learning of new skills. Selection of technology should be base career needs assessment A tool is only as good as the person using the second state of the second state	If on personal and/or If the word of the interpretation is approximately approxim		onstant change, what skills should we learn? se which technological tools to use and opriate to use them? sfer what I know to new technological riences?	
	KNOWLEDGE	SKI	LLS	NJCCCS	
Stı	udents will know:	Students will be able	e to:	0.1.0.1.1	
*	the basics of Microsoft Word, making the software package more efficient. implementing basic techniques will improve mastery and thus will be	 access/hide the ribbon. access/modify Office Button. clear text formatting. adjust line spacing. add-insert-delete a page. 		8.1.8.A.1 8.1.8.A.2 8.1.8.A.3 8.1.8.A.4 8.1.8.E.1	
*	beneficial for increased productivity. many software programs have help systems built in to support the end user.	adjust line spacinginsert a image fileadjust margins.	ng. e.		
*	a hyperlink is a link from a hypertext file or document to another location or file, typically activated by clicking on a highlighted word or image on	* use thesaurus and	ntation. lly and horizontally.	CLASSROOM INTEGRATION	
*	the screen. the diversity of software programs make them very useful for a variety of situations such as mathematical	and footers. use online progra insert and remov use keyboard sho	am help. e hyperlink.	Microsoft Word	
*	symbolism, tables, and hyperlinks. a checklist can help focus and face work to ensure a long-range project is completed on time.	 use subscripts/su use borders. save vs. save as. create columns. 			
	VOCABULARY	RESOURCES	/MATERIALS	ASSESSMENT/PROJECT	
gra col ma jus lan inc ali sup sul hy	rmat aphics lumns argins stify adscape/portrait dent gnment perscript bscript perlink	Microsoft Word 200 Microsoft.com Tutor Google Docs Netop School V6.2 - Application	ials	Formative Classroom Observations of On-screen Work Quizzes Checklists for Task Completion Dialogue, Reflection and Feedback Summative Projects Created and Saved to Network Folders Online Assessment	

Grade: 6 Unit: Internet Safety-Bullying Prevention Time Frame: 2 Periods

ENDURING UNDERSTAN	NDING	ES	SSENTIAL QUESTION	
 Technology use can have positive or no both users and those affected by their users and those affected by their users and those affected by their users and the second description. 	nse. n seconds due to	 What are an individual's responsibilities for using technology? What constitutes misuse and how can it best be prevented? Why is the evaluation and appropriate use of accurate information more important than ever in the technological age? 		
KNOWLEDGE	SKI	LLS	NJCCCS	
 \$ selecting a safe screen name and a secure password will help to protect their personal identity. \$ cyberbullying is aggravated harassment transmitted through technological means, such as emails, text messages, cell phone communications, pagers, or social networking websites. \$ the signs of online predator behavior and the steps they should take if they have encounter this. \$ what are copyrighted and trademarked materials and how they can use them appropriately in their academic work. \$ filtering is used to make online research more efficient. \$ P2P is an abbreviation for Peer-topeer, which denotes a network or data communications in which no dedicated server is involved 	 \$\delta\$ use a blog or chat revealing personal identify appropriat demonstrate acceps selection. use proper online extexting/chatting. identify online pre distinguish fair use material. identify filtered sit use P2P sites approximate approximate. 	room without identity. te screen names. table password etiquette when datory practices. e from copyrighted tes.	8.1.8.D.2 8.1.8.C.1 CLASSROOM INTEGRATION	
VOCABULARY	RESOURCES	/MATERIALS	ASSESSMENT/PROJECT	
online cyberbullying screen name password personal information spamming chat blog social networking site predator prey grooming intimidation anonymous privacy	Website Resources: DARE.com NSTeens.org Netsmartz.org Ikeepsafe.org Flatclassroomproject Facebook/safety tips Netop School V6.2 - Application		Formative Checklists for Task Completion Dialogue, Reflection and Feedback Summative PowerPoint - Jeopardy	

Grade: 6 Unit: Microsoft Paint Time Frame: 1 Period

	ENDURING UNDERSTANDING		ESSENTIAL QUESTION
*	Technology is constantly changing and requires continuous	*	In a world of constant change, what skills should we learn?
	learning of new skills.	*	How do I choose which technological tools to use and
*	Selection of technology should be based on personal and/or		when it is appropriate to use them?
	career needs assessment	*	How can I transfer what I know to new technological
*	A tool is only as good as the person using it.		situations/experiences?

KNOWLEDGE	SKILLS	NJCCCS
 the types of files and which application can be used open the files. using a paint program can be a valuable tool in advertising, digital photography, academic endeavors, and many other venues. a checklist can help focus and face work to ensure a long-range project is completed on time. 	 \$ open files from remote location. \$ change the view size, zoom in-out. \$ save file in requested location. \$ determine what files will open in Paint. \$ turn on gridlines to align work. \$ change font. \$ fill the document with color. \$ change brush types-sizes. \$ access page setup within print menu. \$ change menus. \$ change scaling. \$ center vertically-horizontally. \$ change paper size. \$ center document. \$ use Microsoft paint to create a sample architectural drawing. 	CLASSROOM INTEGRATION Microsoft Paint
VOCABULARY	RESOURCES/MATERIALS	ASSESSMENT/PROJECT
format margins justify landscape/portrait alignment layout scaling	Microsoft Paint-Application Network Printer Netop School V6.2 - Image Sharing Application	Formative Classroom Observations of On-screen Work Checklists for Task Completion Dialogue, Reflection and Feedback Summative Authentic Assessment – Create a city landscape image of buildings of various sizes and shapes

Grade: 7 Unit: MSDIE -Microsoft Digital Image Editor Time Frame: 2 Periods

	ENDURING UNDERSTANDING		ESSENTIAL QUESTION
*	Technology is constantly changing and requires continuous	*	In a world of constant change, what skills should we learn?
	learning of new skills.	*	How do I choose which technological tools to use and
*	Selection of technology should be based on personal and/or		when is it appropriate to use them?
	career needs assessment.	*	How can I transfer what I know to new technological
*	A tool is only as good as the person using it.		situations/experiences?

KNOWLEDGE	SKILLS	NJCCCS
 there are many images stored online for consumer use that can be readily accessed. working with images uses many different skills and tools which can enhance the image to derive the greatest benefit from its use. A a checklist can help focus and face work to ensure a long-range project is completed on time. 	 \$\delta\$ obtain image files. \$\delta\$ save files. \$\delta\$ open the toolbars. \$\delta\$ use the zoom tool. \$\delta\$ correct "red eye" images. \$\delta\$ use the clone tool. \$\delta\$ use the blend tool. \$\delta\$ apply image filters. \$\delta\$ convert color images to sepia, black & white, etc. \$\delta\$ create a silhouette/mask around an image. \$\delta\$ use Microsoft Digital Image Editor to produce images which are corrected for color balance, contrast, and sharpness. 	CLASSROOM INTEGRATION Microsoft Digital Image Editor Microsoft Word
VOCABULARY	RESOURCES/MATERIALS	ASSESSMENT/PROJECT
clone filter select red eye blend sepia zoom/enlarge	Microsoft Digital Image Editor- S/W Netop School V6.2 - Image Sharing Application	Formative Checklists for Task Completion Formal and Informal Student Observations Dialogue, Reflection and Feedback Print an Edited Image Display an Edited Image Summative Authentic Assessment – Modify a high resolution image by removing undesired portions and replacing with cloned pixels.

Grade: 7 Unit: Classroom Rules & Procedures: Intro to the Computer Lab Time Frame: 2 Periods

ENDURING UNDERSTAN	NDING	ESSENTIAL QUESTION		
 Technology use can have positive or negative impact on both users and those affected by their use. Organizing information on a computer makes it more efficient and readily accessible. 		 What are an individual's responsibilities for using technology? What constitutes misuse and how can it best be prevented? Are there basic computer operations that can help me use technology more efficiently? 		
KNOWLEDGE	SKI	ILLS	NJCCCS	
 the expected classroom and online behaviors and procedures including internet safety, District Acceptable Use Policy, and personal safety. the basics of using a desktop and folders to store and organize files to different storage locations. a checklist can help focus and face work to ensure a long-range project is completed on time. 	behaviors. • endorse Accept • access and login • save and access resources on the • locate network of	practice proper ethical computer able Use Policy. In to the network, saved files and enetwork. Irives. Propriate care for onents. In pof data.	8.1.8.D.1 8.1.8.D.2 8.1.8.D.3 CLASSROOM INTEGRATION Practices-skills applicable to school-wide computer use.	
VOCABULARY	RESOURCES	/MATERIALS	ASSESSMENT/PROJECT	
Acceptable Use Policy network login hardware CD backu p ethical	Acceptable Use Policy networked computer Netop School V6.2 - Image Sharing Application		Formative Checklists for Task Completion Formal and Informal Student Observations Dialogue, Reflection and Feedback	

Grade: 7 Unit: Basic Computer Skills Time Frame: 6 Periods

 ENDURING UNDERSTANDING Technology is constantly changing and requires continuous learning of new skills. Selection of technology should be based on personal and/or career needs assessment. A tool is only as good as the person using it. 		ESSENTIAL QUESTION		
		❖ How can I transfer what I know to new technological situations/experiences?		
KNOWLEDGE	-		NJCCCS	
 choosing the most appropriate output for their work product and troubleshooting minor issues with the devices will increase productivity. what copyrighted and trademarked materials are and how to use them appropriately in their academic work. the difference between RAM and hard disk space and various storage options. not all software will work on all hardware. the significance of file endings and what they tell them about it. a checklist can help focus and face work to ensure a long-range project is completed on time. 	Students will be able to: care properly for the printer, load it, fix paper jams, and select from networked print devices. change the page setup (on screen and for printing). create screen capture image. cut and paste, select all, undo and redo. obey copyright laws. determine available RAM/disk space. store data on various medium. determine the software associated with a file based on file extension. dientify hardware components. add a printer and select as default. capture screen images and export. use shortcut keys to manipulate data, fields, and windows. access the network file server. login to the network. connect/disconnect computer peripheral devices.		8.1.8.A.5 8.1.8.D.1 CLASSROOM INTEGRATION Microsoft Office Suite – Windows XP7 OS	
VOCABULARY	RESOURCES	/MATERIALS	ASSESSMENT/PROJECT	
scanner, CPU, printer, USB, hard drive, bluetooth, wireless, copyright law RAM, memory hard disk space file extensions (txt. xls, docx, ppt. html (i.e. edu, .com, .net) keyboard short cut functions	computer parts/comp samples of periphera scanner, printer) sample of copyright I Netop School V6.2 - Application	ls (i.e. computer,	Formative Checklists for Task Completion Formal and Informal Student Observations Dialogue, Reflection and Feedback Summative Presentations Question and Answer – Multiple Choice	

Grade: 7 Unit: GPS & Geocatching Time Frame: 2 Periods

ENDURING UNDERSTAN	DING	ESSENTIAL QUESTION		
 Technology is constantly changing and learning of new skills. Information is spread worldwide within technological advancements and has an KNOWLEDGE	n seconds due to immediate impact.	 In a world of constant change, what skills should we lear Why is the evaluation and appropriate use of accurate information more important than ever in the technologic age? When is it helpful to use a technological tool? 		
			NJCCCS	
 a GPS device receives its data and has increased in popularity and widespread its use is in society. triangulation (triateration) it the mathematical concept which allows GPS systems to work and its value and vulnerability to communication systems worldwide. latitude and longitude are used to measure distances of the earth. a checklist can help focus and face work to ensure a long-range project is completed on time. 	Students will be able to: describe a GPS device. describe how the satellite system. describe the components of a GPS system. explain how triangulation works. plot lat./long coordinates. determine declination. determine the vulnerability of the satellite system.		8.1.8.A.5 8.1.8.E.1 CLASSROOM INTEGRATION Garmin GPS Tom Tom	
VOCABULARY	RESOURCES	/MATERIALS	ASSESSMENT/PROJECT	
satellite receiver navigation tracking mapping ecochache waypoint declination	Websites: Geocaching.com Trimble.com Garmin.com Netop School V6.2 - Application	Image Sharing	Formative Checklists for Task Completion Formal and Informal Student Observations Dialogue, Reflection and Feedback Summative	

Grade: 7 Unit: Microsoft Excel Time Frame: 4 Periods

ENDURING UNDERSTAN	IDING	ESSENTIAL QUESTION		
 Technology is constantly changing and requires continuous learning of new skills. Selection of technology should be based on personal and/or career needs assessment. A tool is only as good as the person using it. 		 In a world of constant change, what skills should we How do I choose which technological tools to use an when is it appropriate to use them? How can I transfer what I know to new technological situations/experiences? IILLS NJCCCS		
 the power of using a spreadsheet program to manipulate data including being able to visually represent the data through graphs and charts. mastery of the basic aspects of the spreadsheet program makes navigating and outputting desired results more efficient, thus improving productivity. numbers can actually be used differently in a variety of ways and thus must be formatted the proper way to ensure desired outcomes. a checklist can help focus and face work to ensure a long-range project is completed on time. 	 \$\text{students will be able to:} \$\text{use correct terminology when discussing a spreadsheet application.} \$\text{navigate the spreadsheet.} \$\text{format cells for different types of data.} \$\text{change the viewing area.} \$\text{add graphics to spreadsheets.} \$\text{create charts and graphs from the spreadsheet data.} \$\text{use formulas within the spreadsheet to make calculations more efficient.} \$\text{adjust cell heights and widths.} \$\text{use the tool ribbon.} \$\text{change the page layout in setup.} \$\text{enter data in cells or ranges of cells.} \$\text{print preview/print the spreadsheet.} \$\text{use Microsoft Excel to create a student gradebook spreadsheet.} 		CLASSROOM INTEGRATION Microsoft Word Microsoft Excel	
VOCABULARY	RESOURCES	/MATERIALS	ASSESSMENT/PROJECT	
data column row merge formula grid function chart	Microsoft Office-Exc Netop School V6.2 - Application		Formative Checklists for Task Completion Formal and Informal Student Observations Dialogue, Reflection and Feedback Summative Authentic Assessment – Create a spreadsheet to calculate the average class height of all classroom students Question and Answers - Multiple Choice Assessment at Learning.com online website	

Grade: 7 Wreitd Processing (MS Word) Time Frame: 12 Periods

Grade: / White Processing	g (MB Word)		Time Frame: 12 remous
ENDURING UNDERSTAN	IDING	ES	SSENTIAL QUESTION
 Technology is constantly changing and learning of new skills. Selection of technology should be base career needs assessment. A tool is only as good as the person using the person usi	ed on personal and/or	How do I choose when is it approx	nstant change, what skills should we learn? e which technological tools to use and priate to use them? fer what I know to new technological iences?
KNOWLEDGE	SKI	LLS	NJCCCS
 \$\delta\$ customizing an application to meet their needs will allow for optimal efficiency. \$\delta\$ a hyperlink is a link from a hypertext file or document to another location or file, typically activated by clicking on a highlighted word or image on the screen. \$\delta\$ the diversity of software programs make them very useful for a variety of situations such as mathematical 	and attitudes. access/hide the r Office Button us Access bar. clear text format adjust line spacie insert a text bloc insert a image fil format an image	usly taught skills ibbon access/modify e/modify Quick ting. ng. k. le.	8.1.8.A.1 8.1.8.A.2 8.1.8.A.3 8.1.8.A.4
 symbolism, tables, hyperlinks. many software programs have help systems built in to support the end user. a checklist can help focus and face work to ensure a long-range project is completed on time. 	 adjust margins. add a header/footer. adjust page layout. align text vertically and horizontally. use thesaurus and spell checker. insert file information into headers and footers. use online program help. insert and remove hyperlink. use keyboard shortcuts. insert and manipulate tables. insert tabs. use subscripts/superscripts. use borders. save vs. save as. 		CLASSROOM INTEGRATION Microsoft Word
VOCABULARY	RESOURCES/MATERIALS		ASSESSMENT/PROJECT
format thesaurus graphics columns margins justify landscape/portrait indent alignment superscript subscript hyperlink layout	Microsoft Word 200 Microsoft.com Tutor Google Docs Netop School V6.2 - Application	ials	Formative Classroom Observations of On-screen Work. Checklists for Task Completion Dialogue, Reflection and Feedback Summative Projects Created and Saved to Network Folders Question and Answers - Multiple Choice Assessment at Learning.com online website

Grade: 7 Unit: Internet Safety-Bullying Prevention Time Frame: 2 Periods

ENDURING UNDERSTANDING	ESSENTIAL QUESTION
 Technology use can have positive or negative impact on both users and those affected by their use. Digital tools allow for communication and collaboration anytime/anyplace worldwide. 	 What are an individual's responsibilities for using technology? What constitutes misuse and how can it best be prevented? How has the use of digital tools improved opportunities for communication and collaboration?

KNOWLEDGE	SKILLS	NJCCCS
 \$ selecting a safe screen name and a secure password will help to protect their personal identity. \$ cyberbullying is aggravated harassment transmitted through technological means, such as emails, text messages, cell phone communications, pagers, or social networking websites. \$ the signs of online predator behavior and what steps they should take if they have been contacted inappropriately. \$ what are copyrighted and trademarked materials and how can you use them appropriately in your academic work. \$ filtering is used to make online research more efficient \$ P2P is an abbreviation for Peer-topeer, which denotes a network or data communications in which no dedicated server is involved \$ a checklist can help focus and face work to ensure a long-range project is completed on time. 	 \$\delta\$ protect personal information. \$\delta\$ use a blog or chat room without revealing personal identity. \$\delta\$ identify and choose appropriate screen names. \$\delta\$ demonstrate acceptable password selection. \$\delta\$ use proper online etiquette when texting'/chatting. \$\delta\$ identify online predatory practices and to whom they report these online incidents. \$\delta\$ distinguish fair use from copyrighted material. \$\delta\$ identify filtered sites. \$\delta\$ use P2P sites appropriately. 	8.1.8.D.1 8.1.8.D.2 8.1.8.C.1 CLASSROOM INTEGRATION
VOCABULARY	RESOURCES/MATERIALS	ASSESSMENT/PROJECT
online cyberbullying screen name password personal information spamming chat blog social networking site predator prey grooming intimidation anonymous	Website Resources: DARE.com NSTeens.org Netsmartz.org Ikeepsafe.org Flatclassroomproject.Ning.com Facebook- safety tips Netop School V6.2 - Image Sharing Application	Formative Checklists for Task Completion Classroom Observations of On-screen Work Dialogue, Reflection and Feedback Summative PowerPoint - Jeopardy

Grade: 8 Unit: Classroom Rules & Procedures: Network Use Time Frame: 2 Periods

ENDURING UN	DERSTANDING		ESSENTIAL QUESTION
 Technology use can have p both users and those affecte Organizing information on efficient and readily access 	a computer makes it more	*	What are an individual's responsibilities for using technology? What constitutes misuse and how can it best be prevented? Are there basic computer operations that can help me use technology more efficiently?

KNOWLEDGE	SKILLS	NJCCCS
 the expected classroom and online behaviors and procedures including internet safety, District Acceptable Use Policy, and personal safety. the basics of using a desktop and folders to store and organize files and different storage locations including a network drive and flashdrive. the importance of caring and maintenance of computer hardware. the importance of backing up their work in case of a computer crash. a checklist can help focus and face work to ensure a long-range project is completed on time. 	 demonstrate & practice proper procedures and ethical computer behaviors. endorse Acceptable Use Policy. access and login to the network. save and access saved files and resources on the network. locate network drives. demonstrate appropriate care for computer components. perform a backup of data. rename files. organize the desktop. find a program or file by using search. 	8.1.8.D.2 8.1.8.D.3 CLASSROOM INTEGRATION Practices-skills applicable to school-wide computer use.
VOCABULARY	RESOURCES/MATERIALS	ASSESSMENT/PROJECT
Acceptable Use Policy network login hardware CD backup ethical hacking filter	Acceptable Use Policy networked computer flashdrive Netop School V6.2 - Image Sharing Application	Formative Classroom and Peer Discussions Checklists for Task Completion Formal and Informal Student Observations Summative True/False Quiz

Grade: 8 Unit: Time Frame: 13 Periods

	ENDURING UNDERSTANDING		ESSENTIAL QUESTION
*	Technology is constantly changing and requires continuous	*	In a world of constant change, what skills should we learn?
	learning of new skills.	*	How do I choose which technological tools to use and
*	Selection of technology should be based on personal and/or		when it is appropriate to use them?
	career needs assessment.	*	How can I transfer what I know to new technological
*	A tool is only as good as the person using it.		situations/experiences?

KNOWLEDGE	SKILLS	NJCCCS
 the power of using a spreadsheet program to manipulate data including being able to visually represent the data through graphs and charts. mastery of the basic aspects of the spreadsheet program makes navigating and outputting desired results more efficient, thus improving productivity. numbers can actually be used differently in a variety of ways and thus must be formatted the proper way to ensure desired outcomes. a checklist can help focus and face work to ensure a long-range project is completed on time. 	Students will be able to: * review previously learned skills * know the terminology related to the application. * navigate about the spreadsheet. * use the tool ribbon. * format cells. * change the page layout in setup. * change the viewing area. * enter data in cells or ranges of cells. * fill cells with data. * print preview/print the spreadsheet. * add graphics or image files. * create charts and graphs. * use formulas. * adjust cell heights. * adjust row width. * calculate average. * sum data. * add, change and delete comments. * draw borders. * insert, merge and delete cells. * adjust cell margins. * create a mail merge. * change workbook views. * freeze pains. * filter data. * Use Microsoft Excel to complete stock market project.	8.1.8.A.1 8.1.8.A.4 8.1.8.A.5 CLASSROOM INTEGRATION Microsoft Excel Microsoft Word
VOCABULARY	RESOURCES/MATERIALS	ASSESSMENT/PROJECT
data column row merge formula grid function chart	Microsoft Office-Excel Netop School V6.2 - Image Sharing Application	Formative Checklists for Task Completion Formal and Informal Student Observations Dialogue, Reflection and Feedback Summative Create a stock portfolio spreadsheet which calculates the % change of the total and individual stock values over time and graph the individual stock values in a pie chart.

Grade: 8 Unit: Word Processing (MS Word) Time Frame: 3 Periods

ENDURING UNDERSTAN	NDING	ES	SSENTIAL QUESTION
 Selection of technology should be based on personal and/or career needs assessment. A tool is only as good as the person using it. Technology is constantly changing and requires continuous learning of new skills. 		How do I choose when it is appropriate the control of the contr	nstant change, what skills should we learn? e which technological tools to use and priate to use them? fer what I know to new technological tences?
KNOWLEDGE	SKI	LLS	NJCCCS
 \$ customizing an application to meet their needs will allow for optimal efficiency. \$ the diversity of software programs make them very useful for a variety of situations such as mathematical symbolism, tables, hyperlinks. \$ many software programs have help systems built in to support the end user. \$ a checklist can help focus and face work to ensure a long-range project is completed on time. 	Students will be able to: * review of previously taught skills and attitudes. * access/hide the ribbon. * access/modify Office Button. * use/modify Quick Access Bar. * adjust line spacing. * insert a text block. * insert a image file. * format an image. * adjust margins. * add a header/footer. * adjust page layout. * align text vertically and horizontally. * use thesaurus and spell checker. * insert file information into headers and footers. * use online program help. * insert and remove hyperlink. * use keyboard shortcuts. * insert tabs .		8.1.8.A.1 8.1.8.A.2 8.1.8.A.3 8.1.8.A.4 8.1.8.A.5 CLASSROOM INTEGRATION Microsoft Word
VOCABULARY	use borders.use save vs. save RESOURCES .		ASSESSMENT/PROJECT
format thesaurus graphics columns margins justify landscape/portrait alignment superscript subscript hyperlink layout	Microsoft Word 200 Microsoft.com Tutor Google Docs Netop School V6.2 - Application	ials	Formative Classroom Observations of On-screen Work Checklists for Task Completion Dialogue, Reflection and Feedback Summative Create and modify a table which contains specific information about public companies and Save to Network Folders Online Assessment at Learning.com

Grade: 8 Unit: Internet Safety-Bullying Prevention Time Frame: 2 Periods

Grade: 8 Unit:	Internet Safety-Bully	ing Prevention	Time Frame: 2 Periods	
ENDURING UNDERSTAN	IDING	ES	SSENTIAL QUESTION	
 Technology use can have positive or negative impact both users and those affected by their use. Digital tools allow for communication and collaborati anytime/anyplace worldwide. 		technology What constitution prevented? How has the	titutes misuse and how can it best be	
KNOWLEDGE	SKI	LLS	NJCCCS	
 \$\delta\$ selecting a safe screen name and a secure password will help to protect their personal identity. \$\delta\$ cyberbullying is aggravated harassment transmitted through technological means, such as emails, text messages, cell phone communications, pagers, or social networking websites. \$\delta\$ what constitutes Cyberbullying. \$\delta\$ the signs of online predator behavior and what steps they should take if they have been contacted inappropriately. \$\delta\$ what are copyrighted and trademarked materials and how can you use them appropriately in your academic work. \$\delta\$ filtering is used to make online research more efficient \$\delta\$ P2P is an abbreviation for Peer-topeer, which denotes a network or data communications in which no dedicated server is involved \$\delta\$ a checklist can help focus and face work to ensure a long-range project is completed on time. 	 Students will be able to: protect personal information. use a blog or chat room without revealing personal identity. identify and choose appropriate screen names. demonstrate acceptable password selection. use proper online etiquette when texting/chatting. identify online predatory practices and to whom they report these online incidents. distinguish fair use from copyrighted material. identify filtered sites. identify what text or images are safe/appropriate to post online. use P2P sites appropriately. 		8.1.8.D.1 8.1.8.D.2 8.1.8.C.1 CLASSROOM INTEGRATION	
VOCABULARY	RESOURCES	/MATERIALS	ASSESSMENT/PROJECT	
online cyberbullying screen name password personal information spamming chat blog social networking site predator prey grooming intimidation anonymous	Website Resources: DARE.com NSTeens.org Netsmartz.org Ikeepsafe.org Flatclassroomproject Facebook - safety tip Netop School V6.2 - Application	s	Formative Classroom Observations of On-screen Work Checklists for Task Completion Dialogue, Reflection and Feedback Summative PowerPoint - Jeopardy	

Grade: 8 Unit: 3D Modeling-SketchUp Time Frame: 6 Periods

ENDURING UNDERSTAN	NDING	ES	SSENTIAL QUESTION
 Digital tools provide enhanced opportunities to design innovative solutions, and express ideas creatively. Technology is constantly changing and requires continuous learning of new skills. A tool is only as good as the person using it. 		 How can digital tools be used for creating original and innovative works, ideas, and solutions? In a world of constant change, what skills should we learn? How can I transfer what I know to new technological situations/experiences? 	
KNOWLEDGE	SKI	LLS	NJCCCS
Students will know:	Students will be able	e to:	0 2 0 D 1
 using Google SketchUp can be used to draw 3-Dimensional figures once the basic tools are masatered, making the program much more powerful. implementing basic techniques will improve mastery and thus will be beneficial for increased productivity. many software programs have help systems built in to support the end user. a checklist can help focus and face work to ensure a long-range project is completed on time. many software programs have tutorials online which help the end user to work the program effectively. 	Students will be able to: vuse the select tool. use the paint Bucket. use the eraser tool. use the rectangle too. use the line tool. use the circle and polygon tool. use the arc tool. use the freehand tool. use the move tool. use the push/pull tool. use the scale tool. use the scale tool. use the tape measure. use the tax and 3D tools. use the navigation tool. use the valk tool. use the section tool. use the section tool. use the pan tool. add texture and color. print their completed project. use Google SketchUp to produce a		CLASSROOM INTEGRATION Google Sketch-up
VOCABULARY	RESOURCES/	MATERIALS	ASSESSMENT/PROJECT
rotate scale push/pull offset protractor axes dimension orbit pan side	Google SketchUp-Fre Netop School V6.2 - Application		Formative Classroom Observations of On-screen Work Checklists for Task Completion Dialogue, Reflection and Feedback Summative Design and draw a necktie/scarf rack which depicts dimensions and textures and then Save to Network Folders

Grade: 8 Unit: Social Interaction Networking Time Frame: 2 Periods

	ENDURING UNDERSTANDING		ESSENTIAL QUESTION
*	Digital tools provide enhanced opportunities to design innovative solutions, and express ideas creatively.	*	How can digital tools be used for creating original and innovative works, ideas, and solutions?
*	Digital tools allow for communication and collaboration anytime/anyplace worldwide.	*	How has the use of digital tools improved opportunities for communication and collaboration?
*	Technology use can have positive or negative impact on both users and those affected by their use.	*	What are an individual's responsibilities for using technology? What constitutes misuse and how can it best be prevented?

KNOWLEDGE	SKILLS	NJCCCS
 \$\delta\$ there are a myriad of ways to communicate online both for social and school/work purposes. \$\delta\$ interacting online has benefits; however, it also has some major consequences if proper etiquette and responsibility are not adhered to. \$\delta\$ online communication tools enable the learning community to reach far outside of the classroom walls. \$\delta\$ a checklist can help focus and face work to ensure a long-range project is completed on time. 	 \$\text{access/use Ning.com.}\$ access/use Facebook.com. access and create a document using Google Docs. set up a Google Phone session. use wikis. send proper IM or Text messages. use Apples' Face to Face. use Skype. use a digital camera. use the proper and ethical behaviors when interacting online. participate in an online learning community. identify biased online information. use appropriate tools and techniques to engage resources in distant or remote locations. 	8.1.8.C.1 8.1.8.B.1 8.1.8.D.3 CLASSROOM INTEGRATION Google Phone Google Docs
VOCABULARY	RESOURCES/MATERIALS	ASSESSMENT/PROJECT
social networking IM wiki internet phone	internet access Gmail account Ning account Facebook account digital camera headset-microphone Netop School V6.2 - Image Sharing Application	Formative Classroom Observations of On-screen Work Checklists for Task Completion Dialogue, Reflection and Feedback Summative Question and Answer - Multiple Choice

Interactive resources that are good for everyone

http://www.eduplace.com/kids/socsci/books/applications/imaps/maps/g1_u3/index.html_Kids mapping software

Learn geography with these interactive map activities. http://www.sheppardsoftware.com/Geography.htm

Needed:

Software Kid Pix Studio for classrooms