Content Area	Technolo	gy								
Standard			will use digital tools to access, manage, eval							
	informatio	n in order to solve problems individ	ually and collaboratively and to create and o					/ledge	9	
						oduc				
				+		nforc	е			
	S	Strand A: Technology Operations ar	nd Concepts	М -	Mas	ster				
		T		1	1 -	_	_			
Content Statement	CPI#	Tools	Cumulative Progress Indicator (CPI)	K	1	2	3	4	5	6
	8.1.2.A.1	Teacher created worksheets,	Identify the basic features of a computer							
		posters, discussions	and explain how to use them effectively.	١.						
	0.1.0.1.0		Har hada alamahama Sada Harana Ra	!	R	M				
	8.1.2.A.2	-	Use technology terms in daily practice.	ı	R	M				_
	8.1.2.A.3	Teacher guided discussions	Discuss the common uses of computer							
The second of the short second			applications and hardware and identify							
The use of technology	0.1.0.4.4		their advantages and disadvantages.	1	R	М				+
and digital tools	8.1.2.A.4		Create a document with text using a word		_	N 4				
requires knowledge	0.1.0.4.5	Internative Internative letter	processing program.	1	R	М				₩
operations and related	8.1.2.A.5	Interactive Internet web sites	Demonstrate the ability to navigate in							
•			developmentally appropriate virtual		_	N 4				
applications.	01111	Kaybaard and may a	environments. Demonstrate effective input of text and	ı	R	М				+
	8.1.4.A.1	Keyboard and mouse	· ·				D	M		
	01110	Creativity programs word	data using an input device. Create a document with text formatting			I	R	IVI		+-
	6.1.4.A.Z	Creativity programs, word processing programs	and graphics using word processing.			١.	R	M		
	8.1.4.A.3		Create and present a multimedia			I	K	IVI		-
	6.1.4.A.3	Presentation software	presentation that includes graphics.			١,	R	M		
	01111	Spreadsheet software	Create a simple spreadsheet, enter data,			1	K	IVI		+
	0.1.4.A.4	Spreadsneet software	and interpret the information.				R	M		
	8.1.4.A.5		Determine the benefits of a wide range of			'	11	IVI		+
	0.1.4.A.3		digital tools by using to solve problems.							
			digital tools by using to solve problems.			1	R	M		
	8.1.8.A.1	Word processing, Desktop	Create professional documents (e.g.,				1.	101		
	0.1.0.71.1	publishing software	newsletter, personalized learning plan,							
			business letter or flyer) using advanced							
Creativity programs,			features of a word processing program.						1	R
word processing	8.1.8.A.2	Spreadsheet or database software								
programs			fields, input data and produce a report							
. 3			using sort and query.							1
	8.1.8.A.3	Presentation software	Create a multimedia presentation including							
			sound and images.						I	R
	8.1.8.A.4	Spreadsheet software	Generate a spreadsheet to calculate,							
			graph and present information.						I	R
	8.1.8.A.5		Select and use appropriate tools and							
			digital resources to accomplish a variety of							
NCBOE TECH CURRICU	UM	10	pasks and to solve problems.						I Pa	ade

Content Area	Technolog	ay								
Standard			nts will use digital tools to access, manage, evalud collaboratively and to create and communicate			_	nesiz	e inf	orma	tion
	1	1	Ţ	1		odu	ce			
				R -	Rei	nfor	се			
		Strand B: Creativity and	Innovation	М -	Ma	ster				
Content Statement	CPI#	Tools	Cumulative Progress Indicator (CPI)	K	1	2	3	4	5	6
The use of digital	8.1.2.B.1	Digital cameras, creativity software: eg. Kid Pix; presentation software; movie making software; teacher created podcasts	Illustrate and communicate original ideas and stories using digital tools and media-rich resources.	1	R	M				
tools enhances creativity and the construction of knowledge.	8.1.4.B.1	Digital cameras, creativity software: eg. presentation software; movie making software; podcasts	Produce a media-rich digital story about a significant local event or issue based on first-person interviews.			ı	R	M		
	8.1.8.B.1	Use web publishing software to communicate and share ideas and projects.	Synthesize and publish information about a local or global issue or event on a web-based shared hosted service.						I	R

Content Area	Technolog	JY								
Standard			udents will use digital tools to access, manage, s individually and collaboratively and to create a				•			e
		•	,	1		oduc				
				R -	Reir	nford	ce			
	Strand C:	Communication and Collab	oration	М -	Mas	ter				
Content Statement	CPI#	Tools	Cumulative Progress Indicator (CPI)	K	1	2	3	4	5	6
	8.1.2.C.1	Teacher created multimedia	Engage in a variety of developmentally appropriate learning activities with students in	ı	R	М				
Digital tools and environments support the learning process and foster collaboration in	8.1.4.C.1	Web-based collaborative sites: http://www.ks- connection.org http://www.kids- space.org/index.html	Engage in online discussions with learners in the United States or from other countries to understand their perspectives on a global problem/issue.			ı	R	M		
solving local or global issues and problems.	8.1.8.C.1	Web-based collaborative web-sites	Participate in an online learning community with learners from other countries to understand their perspectives on a global problem/issue and propose possible solutions.						I	R

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Content Area	Technolog	ay								
Standard			nts will use digital tools to access, manage, eval						9	
						oduc				
				R -	Rei	nford	ce			
		Strand D: Digital Citize	enship	М -	Ма	ster				
Content Statement	CPI#	Tools	Cumulative Progress Indicator (CPI)	K	1	2	3	4	5	6
	8.1.2.D.1	Discussions	Model legal and ethical behaviors when using information both print and non-print by citing resources.	ı	R	М				
Technological	8.1.4.D.1	Discussions, NetSmartz for Kids website, etc.	Discuss the importance of cyber safety, cyber security, and cyber ethics as individuals and members of the global community when using existing and emerging technologies.							
advancements create					I	R	R	M		
societal concerns regarding the ratio of safe, legal and ethical	8.1.4.D.2	Website evaluation activities	Evaluate the accuracy, relevance, and appropriateness of print and non-print electronic information sources.			ı	R	M		
behaviors.	8.1.4.D.3	Discussion & review of policy		ı	R	R	R	М		
	8.1.8.D.1	Presentation software, eg. MS Power Point, Keynote, podcasts.	Demonstrate how information may be biased by creating a multimedia presentation based on research on a controversial issue.					ı	R	R

Content Area	Technolog	ıy								
Standard	8.1 Educa	tional Technology: All stud	ents will use digital tools to access, manage	e, eva	luat	e, an	d sy	nthes	ize	
		·	ndividually and collaboratively and to create	I - R -	Intr Reir	oduc	е	knov	vled	ge
	Str	and E: Research and Informa	ation Fluency	IVI -	Mas	ster				
Content Statement	CPI#	Tools	Cumulative Progress Indicator (CPI)	K	1	2	3	4	5	6
	8.1.2.E.1	Discussions and problem solving based on real life activities using the computer	Research a problem/issue affecting children using digital tools and resources and discuss possible solutions.	ı	R	M				
Effective use of digital tools assists in gathering and managing information.	8.1.4.E.1	Distance learning; presentation tools; Discussions and problem solving based on real life activities using the computer*	Investigate a problem/issue found in the United States and/or other country from multiple perspectives using digital tools and resources and evaluate findings to present possible solutions.			ı	R	M		
	8.1.8.E.1	Web-based research, spreadsheets; Discussions and problem solving based on real life activities using the computer	Gather and analyze findings to produce a possible solution for a content-related or real world problem using data collection technology.						ı	R
		* discussing when things don't work, what to check for, how to fix it.								

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Content Area	Technolog	ay .								
Standard	8.1 Educa	tional Technology: All stude	nts will use digital tools to access, manage,	eval	uate,	and	syn	hesiz	<u>z</u> e	
	information	n in order to solve problems ind	dividually and collaboratively and to create a	and c	omm	nunic	ate k	nowl	edge	9
				I -	Intro	oduc	е			
				R -	Reir	nford	е			
S	trand F: Cr	itical Thinking, Problem Solving	g, and Decision making	М -	Mas	ter				
							1			1
Content Statement	CPI#	Tools	Cumulative Progress Indicator (CPI)	K	1	2	3	4	5	6
	8.1.2.F.1	Mapping software; Google Earth; Incredible Map Machine	Use mapping tools to plan and choose alternate routes to and from various locations.	ı	R	М				
Informational accessed through the use of digital tools	8.1.4.F.1	Spreadsheets, web based research	Select and apply digital tools to collect, organize, and analyze data that support a scientific finding.			ı	R	М		
assists in generating solutions and making decisions.	8.1.8.F.1	Digital stories, presentation tools, distance learning, podcasts	Use an electronic authoring tool in collaboration with learners from other countries to glean their perspectives about a current event or contemporary figure.	t						
									I	R

Content Area	Technolog	ıy								
Standard	Standard	8.2 Technology Educ	cation, Engineering and Design: All stude	ents v	will c	level	op ar	า		
	understand	ling of the nature and i	impact of technology, engineering, technolog	gical	desi	gn, a	and t	he de	sign	ed
	world, as th	ney relate to the indivi	dual, global society, and the environment.							
				I -	Intr	oduc	ce			
				R -	Rei	nfor	се			
S	trand A: Na	ture of Technology: Cr	eativity and Innovation	М -	Mas	ster				
Content Statement	CPI#	Tools	Cumulative Progress Indicator (CPI)	K	1	2	3	4	5	6
	8.2.2.A.1	Calculators/Math;	Describe how technology's products,							
		Research using web	systems and resources are useful tools at							
		based databases &	school, home and work.							
		encyclopedias								
				I	R	M				
Technology systems	8.2.4.A.1	Social Studies/Math	Investigate factors that influence the							
impact every aspect			development and function of products and							
of the world in which			systems				R	М		
we live.	8.2.4.A.2	Presentation	Compare and contrast how a product has							
		software/Social	changed over time due to economic,							
		Studies	political and/or cultural influences using a							
			digital format			I	R	М		
	8.2.8.A.1	Social	Explain the impact of globalization on the							
		Studies/Science	development of a technological system							
			over time.							I

Content Area	Technolog								
Standard			ucation, Engineering and Design: All stu						
			d impact of technology, engineering, techno		al de	sign,	and	the o	de
	world, as t	hey relate to the indi	vidual, global society, and the environment.						
						odu			
						nfor	се		
Strand B:	Design: Cr	itical Thinking, Proble	em Solving, and Decision Making	М -	Mas	ster			
Content Statement	CPI#	Tools	Cumulative Progress Indicator (CPI)	K	1	2	3	4	Į
	8.2.2.B.1	Science-concept	Brainstorm and devise a plan to repair a						
		mapping software	broken toy/tool using the design process.						
				ı	R	M			
	8.2.2.B.2	Social Studies-	Investigate the influence of a specific						
		Class discussions;	technology on the individual, family,						
		Kidbiz; email	community and environment.						
				I	R	М			
	8.2.4.B.1	Science-	Develop a product using and online						
		Interactive	simulation that explores the design						
		software; web	process.						
		based activities	·			ı	R	М	
	8.2.4.B.2	Science-	Design an alternative use for an existing						
		presentation	product.						
		software	'			I	R	М	
	8.2.4.B.3	Science	Explain the positive and negative effect of						
			products and systems on humans, other						
The decime process is			species and the environment.			1	R	M	
The design process is	8.2.4.B.4	Science	Compare and contrast how technology						
a systematic approach			transfer happens within a technology,						
to solving problems.			among technologies, and among other						
			fields of study.			I	R	M	
	8.2.8.B.1	Science	Design and create a product using the						
			design process that addresses a real world						
			problem with specific criteria and						
			constraints.						
	8.2.8.B.2	Science	Identify the design constraints and trade						
			offs involved in designing a prototype (how	/					
			the prototype might fail, and how it might						
			be improved) by completing a design						
			problem and reporting results in a						
			multimedia presentation.						
			·						
	8.2.8.B.3	Science	Solve a science-based design challenge						
			and build a prototype using science and						
			math principles throughout the design						
TECH CURRICULUM			proces\$\$26/2016						

Content Area	Technolog	у								
Standard			cation, Engineering and Design: All stud	ents	will	deve	lop a	an		
	understandi	ng of the nature and	impact of technology, engineering, technology	gical	des	ign,	and	the d	esigr	ned
		_	ridual, global society, and the environment.	Ü					J	
	· ·	<u> </u>	, , , , , , , , , , , , , , , , , , ,	I - I	Intro	odu	ce			
				R -	Reir	nfor	се			
	Strand C: Te	echnological Citizensh	nip, Ethics and Society	М -	Mas	ster				
			•							
Content Statement	CPI#	Tools	Cumulative Progress Indicator (CPI)	Κ	1	2	3	4	5	6
	8.2.2.C.1	Social Studies	Demonstrate how reusing a product affects							
			the local and global environment	I	R	M				
	82.4.C.1	Interactive online	Explain the impact of disposing of							
		activities	materials in a responsible way.			1	R	M		
	8.2.4.C.2	Online resources;	Explain the purpose of trademarks and the							
		web based	impact of trademark infringement on							
Knowledge and		encyclopedias	businesses.							
understanding of						1	R	M		
human, cultural and	8.2.4.C.3	Instruction &	Examine ethical considerations in the							
societal values are		discussion of	development and production process of a							
fundamental when		ownership using	product from its inception through							
designing technology		online resources	marketing, use, maintenance and disposal							
systems and products		citing references	by consumers.			1	R	M		
in the global society.	8.2.8.C.1	Discussion; ethics	Explain the need for a patent and process							
			of registering one.							1
	8.2.8.C.2		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.							1

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Content Area	Technolog	У								
Standard	Standard 8	3.2 Technology Ed	ucation, Engineering and Design: All stu	ıden	ts wi	II de	velop	an		
	understand	ing of the nature an	d impact of technology, engineering, techno	ologi	cal d	esigr	n, an	d the		
	designed w	orld, as they relate	to the individual, global society, and the env	/iron	men	t.				
		J	<u> </u>	I -	Intro	oduc	е			
				R -	Reir	nford	ce			
	Strand	D: Research and Inf	formation Fluency	М -	Mas	ster				
			<u> </u>	1						
Content Statement	CPI#	Tools	Cumulative Progress Indicator (CPI)	K	1	2	3	4	5	6
	8.2.2.D.1	Spreadsheet	Collect and post the results of a digital							
		software	classroom survey about a problem or issue							
			and predict consequences based on claims							
Information literacy			and reasons.	I	R	M				
skills, research data	8.2.4.D.1	Spreadsheet	Analyze responses collected from							
analysis and		software; create	owners/users of a particular product and							
prediction are the		graphs, diagrams	suggest modifications in the design of the							
basics for the			product based on responses.			1	R	M		
effective design of	8.2.8.D.1		Evaluate the role of ethics and bias on							
technology systems			trend analysis and prediction in the							
			development of a product that impacts							
			communities in the United States and/or							
			other countries.							I

Content Area	Technolog	Jy								
Standard	Standard	8.2 Technology	Education, Engineering and Design: All s	tude	nts v	vill de	evelo	p an		
	understand	ling of the nature	and impact of technology, engineering, tech	nolog	gical	desig	n, ai	nd th	е	
	designed w	orld, as they rela	ate to the individual, global society, and the e	nviro	nme	nt.				
				I -	Intro	oduc	е			
				R -	Reir	nforc	е			
	Strand	E: Communicatio	n and Collaboration	М -	Mas	ter				
Content Statement	CPI#	Tools	Cumulative Progress Indicator (CPI)	К	1	2	3	4	5	6
	8.2.2.E.1	Video	Communicate with student in the United							
		conferencing;	States or other countries using digital tools							
		online	to gather information about a specific topic							
		collaborative	and share results.							
		websites		ı	R	М				
Digital tools facilitate	8.2.4.E.1	Video	Explain how technology is/was successfully							
Digital tools facilitate		conferencing;	or unsuccessfully used to address							
local and global		online	local/global problem by producing and							
communication in		collaborative	publishing a report in collaboration with							
designing products		websites	peers.			I	R	M		
and systems.	8.2.8.E.1	Video	Develop a product by collaborating with							
		conferencing;	peers and experts in the field, using the							
		online	design process, data analysis and trends							
		collaborative	and maintain a digital log with annotated							
		websites	sketches to record the development cycle.							
										- 1

Content Area	Technolog	ay								
Standard	Standard	8.2 Technology E	Education, Engineering and Design: All stu	udent	s wil	dev	elop	an		
	understand	ling of the nature	and impact of technology, engineering, technology	ologic	al de	sign,	and	the		
	designed w	orld, as they relat	e to the individual, global society, and the en	vironr	nent					
			-	I - I	ntro	oduc	е			
				R -	Rein	forc	е			
9	Strand F: Te	echnology Education	on, Engineering & Design	М -	Mas	ter				
Content Statement	CPI#	Tools	Cumulative Progress Indicator (CPI)	K	1	2	3	4	5	6
	8.2.2.F.1	Productivity &	Identify the resources needed to create							
		creativity	technological products and systems.							
		software	3 1	1	R	М				
	8.2.4.F.1	Productivity &	Describe how resources are used in a							
		creativity	technological product or system.							
		software				ı	R	М		
	8.2.4.F.2	Internet	Explain how resources are processed in							
		resources;	order to produce products and systems.							
The creation of		creativity								
technology is derived		software;								
from the application		productivity								
and appropriate use of	-	software				I	R	М		
technological	8.2.8.F.1		Explain the impact of resource selection							
resources.			and processing in the development of a							
			technological product or system.							I
	8.2.8.F.2		Explain how the resources and processes							
			used in the production of a current product							
			can be modified to have a more positive							
			impact on the economy and the							
			environment (e.g., recycled metals,							
			alternate energy sources)							
										I

Content Area	Technolog	ıy									
Standard	Standard 8.2 Technology Education, Engineering and Design: All students will develop an understanding of the nature and impact of technology, engineering, technological design, and the designed world, as they relate to the individual, global society, and the environment.										
					I - Introduce						
					R - Reinforce						
Strand G: The Designed World					M - Master						
Content Statement	CPI#	Tools	Cumulative Progress Indicator (CPI)	K	1	2	3	4	5	6	
	8.2.2.G.1	Interactive online	Describe how the parts of a common								
		activities	toy/tool interact and work as part of a	I	R	М					
	8.2.2.G.2	Class discussion s	Explain the importance of safety in the								
		re class rules in	use and selection of appropriate tools and								
		reference to	resources for a specific purpose.								
		technology		I	R	М					
The designed world is	8.2.4.G.1	Internet research	Examine a malfunctioning tool and use a								
the product of a			step-by-step process to troubleshoot and								
design process that			present options to repair the product								
provides the means to						ı	R	М			
convert resources into	8.2.4.G.2	MS Office	Explain the functions of a system and								
products and systems.		productivity tools	subsystems.								
						I	R	М			
	8.2.4.G.3	0.	Evaluate the function, value, and esthetics								
		tools to store &	of a technological product, system or								
		retrieve artifacts	environment from the perspective of the								
			user and the producer.								
						I	R	М			