			DLCS Curriculum Evaluation Too	l Grades	2_5			
Name of Reviewer:			School/District:		3-3	Dat	e:	
Name of Curriculum Materials:					Date:		Grade Lev	1011511
			Ful	Jiication	Date		Grade Lev	rei(3).
Scale:								
Not Found	N	The digita	al literacy and computer science conter	nt was no	t found.			
Low	L		ps in the digital literacy and computer s			e found.		
Marginal	М	Gaps in tl	he digital literacy and computer science	e content,	, as descril	oed in the Standards, were found an	d these ga	ps may
Acceptable	Α		in the digital literacy and computer sci				d and thes	se gaps
High	Н	The digita	al literacy and computer science conter	nt was full	ly formed	as described in the Standards.		
Overaching Considerations:								
To what extent do the materials:	N-L-M-A-H	Comme	ents:					
Provide a multitude of avenues to								
meet standards (unplugged, online,								
visual, auditory, kinesthetic)								
Meet accessibility standards (physically and digitally)								
Address a variety of comprehension								
levels (Blooms, DOK)								
Guidance for teachers in effectively								
teaching the standards (clear								
procedures are provided to assist in								
implementation of the materials; essential learning material such as								
handouts, student text, and other								
instructional tools provided)								
Provide varied assessment strategies								
that include:								
Basic response items (e.g.,								
multiple								
choice, matching, true and false)								
Performance Assessments								
Reflect, over time, on what								
and how they have learned								
Project-based Tasks								
Provide opportunities for cross-								
The resource provides guidance to								
the student regarding practicing and								
applying the skill using real life								
scenarios/ experiences								
Glossaries, bibliographies, indices,								
appendices, and tables of content are								
included, comprehensive, and easy to								
use								
	Chapter,			Chapter,			Chapter,	
DLCS Grade 3	Pages, Resource	N-L-M-A-H	DLCS Grade 4	Pages, Resource	N-L-M-A-H	DLCS Grade 5	Pages, Resource	N-L-M-A-H
Recurring Standards			Recurring Standards			Recurring Standards		
Safety, Privacy, and Security			Safety, Privacy, and Security			Safety, Privacy, and Security		
R1. Identify, demonstrate, and apply			R1. Identify, demonstrate, and apply			R1. Identify, demonstrate, and		
personal safe use of digital devices.			personal safe use of digital devices.			apply personal safe use of digital		
Local and Ethical Bahavian			Logal and Ethical Bahavian			devices.		
Legal and Ethical Behavior R2. Recognize and demonstrate age-			Legal and Ethical Behavior R2. Recognize and demonstrate age-			R2. Recognize and demonstrate		
appropriate responsible use of digital			appropriate responsible use of digital			age-appropriate responsible use of		
devices and resources as outlined in			devices and resources as outlined in			digital devices and resources as		
school/district rules.			school/district rules.			outlined in school/district rules.		
Impact of Computing			Impact of Computing			Impact of Computing		
R3. Assess the validity and identify			R3. Assess the validity and identify			R3. Assess the validity and identify		
the purpose of digital content.			the purpose of digital content.			the purpose of digital content.		
Systems			Systems			Systems		
R4. Identify and employ appropriate			R4. Identify and employ appropriate			R4. Identify and employ		
troubleshooting techniques used to			troubleshooting techniques used to			appropriate troubleshooting		
solve computing or connectivity			solve computing or connectivity			techniques used to solve		
issues.			issues.			computing or connectivity issues.		

Collaborative Research	Collaborative Research	Collaborative Research
R5. Locate and curate information	R5. Locate and curate information	R5. Locate and curate information
from digital sources to answer	from digital sources to answer	from digital sources to answer
research questions. Digital Tools	research questions. Digital Tools	research questions. Digital Tools
R6. Produce, review, and revise	R6. Produce, review, and revise	R6. Produce, review, and revise
authentic artifacts that include	authentic artifacts that include	authentic artifacts that include
multimedia using appropriate digital	multimedia using appropriate digital	multimedia using appropriate
tools.	tools.	digital tools.
Computational Thinker	Computational Thinker	Computational Thinker
Abstraction	Abstraction	Abstraction
1. Use numbers or letters to	1.@onstruct a basic system of	1.Donstruct a complex system of
represent information in another	numbers, letters, or symbols to	numbers or letters to represent
form. Examples: Secret	represent information as a cipher.	information.
codes/encryption, Roman numerals,	Examples: Combine data from	Example: Student-created complex
or abbreviations.	multiple sources, sorting multi-level.	secret codes using more than one form to solve a problem or answer
		a question.
2. Analyze a given list of sub-	2. Formulate a list of sub-	a question.
problems while addressing a larger	problems to consider while	
problem.	addressing a larger problem.	
Example: Problem - making a peanut	Examples: Problem - a multi-step	
butter sandwich; sub-problem -	math problem; sub-problem - steps	
opening jar, finding a knife, getting	to solve.	
the bread.	Problem - light bulb does not light;	
Problem - design and share a	sub-problem - steps to resolve why.	
brochure; sub-problem - selecting		
font, choosing layout.	No. 20.	Al 21
Algorithms 3.Explain that different solutions	Algorithms 3. Show that different solutions exist	Algorithms 2.@reate an algorithm to solve a
exist for the same problem or sub-	for the same problem or sub-	problem while detecting and
problem.	problem.	debugging logical errors within the
Example: Multiple paths exist to get	рговіені.	algorithm.
home from school; one may be a		Examples: Program the movement
shorter distance while one may		of a character, robot, or person
encounter less traffic.		through a maze.
		Define a variable that can be
		changed or updated.
4.Examine logical reasoning to	4.Detect and debug logical errors in	3.@reate an algorithm that is
predict outcomes of an algorithm.	various basic algorithms.	defined by simple pseudocode.
	Example: Trace the path of a set of	
	directions to determine success or	
Γ 18	failure.	4 Streets a size of a record and a
5.Øreate an algorithm to solve a problem as a collaborative team.	5.Dse flowcharts to create a plan or	4.Øreate a simple pseudocode.
Examples: Move a	algorithm.	
character/robot/person through a		
maze. List steps to build a sandwich.		
mazer zist steps to sama a samawiem		
6.Describe the function of a	6.Define a simple pseudocode.	5.Develop and recommend
flowchart.		solutions to a given problem and
		explain the process to an audience.
Programming and Development	Programming and Development	Programming and Development
7. Test and debug a given program in	7. Create a working program in a	6. Preate a working program in a
a block-based visual programming	block-based visual programming	block-based visual programming
environment using arithmetic operators, conditionals, and	environment using arithmetic	environment using arithmetic
operators, conditionals, and repetition in programs, in	operators, conditionals, and repetition in programs, in	operators, conditionals, and repetition in programs.
collaboration with others.	collaboration with others.	repetition in programs.
Examples: Sequencing cards for	SS. ASS. ACON WICH SCHOOL	
unplugged activities, online coding		
practice.		
		7. Edentify variables.
		8.Demonstrate that programs
		require known starting values that
		may need to be updated
		appropriately during the execution
		of programs.
		Examples: Set initial value of a
Citizen of a Digital Culture	Citizen of a Digital Culture	variable, updating variables. Citizen of a Digital Culture

	0.6. 0.1 10 11	0.6. 5.1 10 11	
Safety, Privacy, and Security	Safety, Privacy, and Security	Safety, Privacy, and Security	
8.Describe how to use proper	8. Demonstrate the proper use	9. Explain the proper use and	
ergonomics when using devices.	and operation of security	operation of security technologies.	
Examples: Body position, lighting,	technologies. Examples: Passwords, virus	Examples: Passwords, virus protection software, spam filters,	
positioning of equipment, taking breaks.			
breaks.	protection software, spam filters, pop- up blockers.	pop-up blockers, cookies.	
9. Identify the proper use and	ap blockers:	10.Edentify appropriate and	
operation of security technologies.		inappropriate uses of	
Examples: Passwords, virus		communication technology and	
protection software, spam filters,		discuss the permanence of actions	
pop-up blockers.		in the digital world.	
10.Describe ways web advertising			
collects personal information.			
Examples: Search ads, banner			
ads, in-game ads, email ads.			
	Legal and Ethical Behavior	Legal and Ethical Behavior	
	9.配entify laws and tools which help	11.Explain that laws and tools	
	ensure that users of varying abilities	exist to help ensure that people of	
	can access electronic and information	varying abilities can access	
	technology.	electronic and information	
	Examples: ADA Laws	technology.	
	· ·	Examples: Section 508,	
		Telecommunication Act of 1996,	
		Braille, closed captioning, text to	
		speech.	
	Digital Identity	Digital Identity	
	10. Edentify the different forms of	12.Explain the different forms of	
	web advertising and why websites,	web advertising and why websites,	
	digital resources, and artifacts may	digital resources, and artifacts may	
	include advertisements and collect	include advertisements that may	
	personal information.	collect personal information.	
	l'	·	
	Examples: Search ads, pay-per-click	Examples: personalized web	
	ads, banner ads, targeted ads, in-	experiences based on tailored web	
	game ads, email ads. 2	searches, maintaining search	
		history, quicker access to relevant	
		information.	
Impact of Computing	Impact of Computing	Impact of Computing	
11. Identify resources in the	11.Discuss the digital divide as	13. Share knowledge of resources	
community that offer technology	unequal access to technology based	in the community that can give	
access.	on differences such as income,	people access to technology.	
	education, age, or geographic		
Examples: Libraries, community		Example: student created print and/or digital resource to share	
	location and locate resources in the		
centers, restaurants, education			
programs, schools, or	community that can give people	WiFi or other connectivity	
programs, schools, or hardware/software donation		WiFi or other connectivity opportunities within the	
programs, schools, or hardware/software donation programs.	community that can give people	WiFi or other connectivity opportunities within the community.	
programs, schools, or hardware/software donation programs. 12.Rdentify and discuss ways that	community that can give people	WiFi or other connectivity opportunities within the community. 14. Analyze the impact of social	
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	13. Synthesize complex information	17. Publish organized information
	from multiple sources in different	in different ways to make it more
	ways to make it more useful and/or	useful or relevant.
	relevant.	Examples: Infographic, student
Digital Tools	T C C C C C C C C C C C C C C C C C C C	created website.
	Digital Tools	Digital Tools
4. Type 15 words per minute with	14. Type 20 words per minute with	18. Type 25 words per minute with
95% accuracy using appropriate	95% accuracy using appropriate	95% accuracy using appropriate
keyboarding techniques.	keyboarding techniques.	keyboarding techniques.
5.Describe local, networked, and		
online or cloud environments.		
Collaborative Research	Collaborative Research	Collaborative Research
6.@onduct basic keyword searches	15. Donduct complex keyword	19.@onduct advanced keyword
o produce valid, appropriate results,	searches to produce valid,	searches to produce valid,
ind evaluate results for accuracy,	appropriate results and evaluate	appropriate results and evaluate
elevance, and appropriateness.	results for accuracy, relevance, and	results for accuracy, relevance, and
xamples: Use search techniques,	appropriateness.	appropriateness.
heck for credibility and validity.	Examples: Search techniques, check	Examples: Search techniques,
	for credibility and validity.	check for credibility and validity.
		Social Interaction
		20.©ollaborate locally and globally
		using online digital tools under
Computing Analyst	Computing Analyst	teacher supervision.
Computing Analyst Data	Data	Computing Analyst Data
17.Describe examples of data sets	16. Sather and organize data to	21.Manipulate data to answer a
or databases from everyday life.	answer a question using a variety of	question using a variety of
xamples: Library catalogs, school	computing and data visualization	computing methods and tools to
ecords, telephone directories, or	methods.	collect, organize, graph, analyze,
contact lists.	Examples: Sorting, totaling,	and publish the resulting
	averaging, charts, and graphs.	information.
Systems	Systems	Systems
18.Edentify a broad range of digital	17.Demonstrate an appropriate	22. Edentify computing services
devices, the services they provide,	level of proficiency in performing	that may be initially turned on by
and appropriate uses for them.	tasks using a range of digital devices.	default.
Examples: Computers, smartphones,	Examples: Collect and record data,	Examples: Geolocations,
ablets, robots, e-textiles, driving	print, use send command, connect to	geotagging.
directions apps that access remote	Internet, or search; use probes,	
map services, digital personal	sensors, printers, robots, or	
assistants that access remote	computers.	
nformation services.		
9.Describe the differences		23. Edentify the key components of
petween hardware and software.		a network.
		Examples: Links, nodes, networking
		devices.
		24.Describe the need for
		authentication of users and devices
		as it relates to access permissions,
		privacy, and security.
		Examples: Logging in at school,
		logging personal devices to public
		networks.
	Modeling and Simulation	Modeling and Simulations
	18.@reate a simple digital model of a	25.Analyze the concepts, features,
	system, individually and	and behaviors illustrated by a
	collaboratively, and explain what the	simulation.
	model shows and does not show.	Examples: Object motion, weather,
	Examples: Create a model of the	ecosystem, predator/prey.
	water cycle and indicate that it shows	
	how precipitation forms but does not	
	indicate how pesticides get into	
	rivers.	
	19.Dse data from a simulation to	26.Donnect data from a
	19.Dse data from a simulation to answer a question collaboratively.	26.Donnect data from a simulation to real-life events.
Innovative Designer		

20.Compare and contrast human and computer performance on similar tasks to understand which is better suited to the task. Examples: Sorting alphabetically, finding a path across a cluttered room.	20.Explain how hardware and applications can enable everyone, including people with disabilities, to do things they could not do otherwise. Examples: Global Positioning System [GPS] to navigate, text-to-speech feature to read aloud from a digital resource, translate a digital resource to a different language.	27. Define social engineering and discuss possible defenses. Examples: Phishing, impersonating
21.Explain advantages and limitations of technology. Example: A spell-checker can check thousands of words faster than a human could look them up; however, a spell-checker might not know whether underserved is correct or if the author's intent was to type undeserved.		
Design Thinking	Design Thinking	Design Thinking
22.Discuss the design process and	21.Develop, test, and refine	28.Develop, test, and refine
use digital tools to illustrate potential solutions.	prototypes as part of a cyclical design process to solve a simple problem.	prototypes as part of a cyclical design process to solve a complex problem. Examples: Design backpack for a specific user's needs; design a method to collect and transport water without the benefit of faucets; design boats that need to hold as much payload as possible before sinking; design models of chairs based on specific user needs.
23.Implement the design process to solve a simple problem. Examples: Uneven table leg, noise in the cafeteria, tallying the collection		
of food drive donations.		
Overall Impressions:	Comments:	
What are your overall impressions of the curricul		
What are the strengths and weaknesses of the m		
Have you identified gaps within this domain? Wh	at are	