			Strand:	Data Literacy, Mana	agement, and Repres	sentation			
				Substrand:	Collect Data				
Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Rationale
Data literacy, management, and representationcollect data. The student defines data and explains how it can be found and collected. The student is expected to:			data. The student uses digital strategies to collect and identify data. The student is expected to:  data. The student uses advanced digital strategies to collect and represent data. The student is expected to:					The new statements support the continued development of advanced data collection and search strategies, along with the introduction of how data is processed in a variety of formats in digital devices.	
NEW (A) identify that data is information collected about people, events, or objects, such as computer searches and weather patterns	NEW (A) explore and collect many types of data, such as preferences or daily routines of people, events, or objects	NEW (A) collect and identify non- numerical data, such as weather patterns, preferred reading genres, and holidays	NEW (A) collect and identify numerical data.	NEW (A) classify numerical and non-numerical data	NEW (A) identify and collect quantitative and qualitative data with digital tools	NEW (A) demonstrate how data can be represented in a binary system and Boolean expression	NEW (A) compare and contrast binary and Boolean data	NEW (A) explain how devices manipulate and transfer data types and files from collected data, such as integers, real numbers, Boolean and text in a binary system	The work group referenced the CSTA progression chart, including the defining data concept, and the New York data standards. The work group made horizontal alignments with other curriculum areas including math, science, social studies, and ELA.

	Strand: Data Literacy, Management, and Representation									
				Substrand	Collect Data					
Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Rationale	
NEW (B)	NEW (B) conduct	NEW (B) conduct	NEW (B) use	NEW (B) use	New (B) select	NEW (B) discuss	NEW (B) evaluate	NEW (B) apply	The work group	
communicate the	a basic search	a basic search	various search	various search	various search	and use advanced	advanced search	appropriate	created new	
idea with	independently or	independently	strategies with	strategies with	strategies within	search strategies,	strategies,	search strategies,	student	
guidance that	collaboratively	using provided	guidance	two or more	specific	including	including	including	expectations to fully	
digital devices can	using provided	keywords and		keywords within	parameters	keyword(s),	keyword(s),	keyword(s),	develop the concept	
search for and	keywords and	digital sources	3-5.3.A use	specific		Boolean	Boolean	Boolean	of technology	
retrieve	digital sources		various search	parameters		operators and	operators, and	operators, and	searches in grades	
information			strategies such as			limiters	limiters	limiters to	K-8. The work group	
			keyword(s); the					achieve a	used information	
K-2.3.A use search			<del>Boolean</del>				7.3.B use and	specified	from ISTE, other	
strategies to			identifiers and,				evaluate various	outcome that	states (New York,	
access			or, and not; and				search strategies,	includes a variety	Massachusetts, and	
information to			other strategies				including	of file formats	Washington), the	
guide inquiry;			appropriate to				keyword(s) and		CSTA progression	
			specific search				<del>Boolean</del>	8.3.B plan, use,	chart (Level IA), and	
			engines;				<del>operators;</del>	<del>and evaluate</del>	the Foundation	
								various search	Skills Key	
								strategies,	Technology 1	
								including	section of the CCRS	
								keyword(s) and	to create new SEs.	
								<del>Boolean</del>	The work group	
								<del>operators;</del>	added	
									differentiation and	
									scaffolding	
									throughout.	

			Strand:	Data Literacy, Mana	gement, and Repres	entation			
				Substrand:	Collect Data				
Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Rationale
K-2.3.B use			3-5.3.B collect			6.3.A create a	7.3.A create a	8.3.A create a	The work group felt
research skills to			and organize			research plan to	research plan to	research plan to	the intent of this SE
build a knowledge			information from			guide inquiry;	guide inquiry;	guide inquiry;	was covered in the
base regarding a			a variety of						new digital
topic, task, or			formats, including						citizenship strand
assignment; and			text, audio, video,						and in the ELA TEKS.
			and graphics;						The work group
									deleted this student
									expectation
									because of the
									overlap of these
									actions as part of
									the newly defined
									student
									expectations in this
									strand and the
									practical technology
									concepts strand.
									The newly created
									student
									expectations for
									search strategies
									are relevant to the
									research concept.
K-2.3.C evaluate			3-5.3.C validate	3-5.3.D acquire		6.3.C select and	7.3.C select and	8.3.C select and	The work group felt
the usefulness of			and evaluate the	information		evaluate various	evaluate various	evaluate various	the intent of this
acquired digital			relevance and	<del>appropriate to</del>		types of digital	types of digital	types of digital	concept was
<del>content.</del>			<del>appropriateness</del>	<del>specific tasks.</del>		resources for	resources for	resources for	developed in the
			of information;			accuracy and	accuracy and	accuracy and	Digital Citizenship
			and			validity; and	validity; and	validity; and	strand and in the
									ELS TEKS.

	Strand: Data Literacy, Management, and Representation											
			Su	bstrand: Organize, N	Manage, and Analyze	Data						
Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Rationale			
			Data literacy, man	agement, and repres	entationorganize,	New: Data Literacy	, Management, and I	Representation	The CSTA			
			manage, and analy	ze data. The student	uses data to	Organize, manage,	and analyze data. Th	e student uses	progression chart			
			answer questions.	The student is expec	ted to:	technology to tran	sform data, make inf	erences, and	and other state			
						predictions. The st	udent is expected to:		standards support			
									the development of			
							<del>roblem solving, and d</del>	_	data evaluation			
							ormed decisions by a	. , .	techniques to			
						thinking and probl	em-solving skills. The	student is expected	answer questions.			
						to:			The original			
									knowledge			
									statement did not			
									fit the development			
									of the organize,			
									manage, and			
									analyze substrand.			
					W.				The new statement			
									captures the			
									transformation of			
									data, as well as,			
									making inferences			
									and predictions.			

			Strand	: Data Literacy, Mana	agement, and Repres	sentation			
			Su	bstrand: Organize, N	lanage, and Analyze	Data			
Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Rationale
Kindergarten	Grade 1	Grade 2		Grade 4  NEW (A) use technology to analyze, transform, and make inferences about the data to answer a question	<del></del>		Grade 7  NEW (A) use technology to transform data to select the appropriate graph, analyze trends, and make inferences and predictions  7.1.D use technology to discuss trends and make predictions.	Grade 8  NEW (A) use technology to transform data, analyze trends and predict possibilities developing steps for the creation of an innovative process or product  8.1.D analyze trends and forecast possibilities.	Rationale  The work group used the CSTA progression chart, information from other states (WA, NY, and MA), and cross-curriculum TEKS connections including mathematics and third-grade science to create new student expectations. The work group also included work group B recommendations and included the terms "inference" and "transformation." Additionally, the work group aligned with CCRS crossdisciplinary foundation skills (E

			Strand	Data Literacy, Mana	agement, and Repres	sentation					
	Substrand: Organize, Manage, and Analyze Data										
Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Rationale		
K-2.4.D collect,			3-5.4.B collect,	3-5.4.C evaluate		6.4.C collect and	7.4.C collect and	8.4.C collect and	These student		
analyze, and			analyze, and	student-created		analyze data to	analyze data to	analyze data to	expectations have		
represent data			represent data to	products through		identify solutions	identify solutions	identify solutions	been addressed in		
using tools such			solve problems	self and peer		and make	and make	and make	the new student		
<del>as word</del>			using tools such	review for		informed	informed	informed	expectations for in		
<del>processing,</del>			<del>as word</del>	relevance to the		<del>decisions;</del>	<del>decisions;</del>	<del>decisions;</del>	the new substrands.		
spreadsheets,			<del>processing,</del>	assignment or							
graphic			<del>databases,</del>	task; and							
organizers, charts,			spreadsheets,								
<del>multimedia,</del>			graphic								
simulations,			organizers,								
models, and			<del>charts,</del>								
programming			multimedia,								
languages.			simulations,								
			models, and								
			programming								
			<del>languages;</del>								

			Strand	: Data Literacy, Mar	agement, and Repres	entation			
			S	ubstrand: Commun	icate and Publish Resu	ults			
Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Rationale
		Data literacy,	Data literacy, mana	gement, and repres	entation	Data literacy, mana	agement, and repr	esentation	The work group
		management, and	communicate and	oublish results. The	student	communicate and	publish results. Th	e student creates	used information
		representation	communicates data	a through the use of	digital tools to an	digital products to	communicate data	a to an audience for an	from CSTA and
		communicate and	audience. The stud	ent is expected to:		intended purpose.	The student is exp	ected to:	other state
		publish results.							standards (WA, MA,
		The student				Creativity and inno	<del>vation. The stude</del> i	<del>nt uses creative</del>	WV, and NY) to
		communicates				thinking and innov	ative processes to	construct knowledge,	introduce the
		data through the				generate new idea	s, and create prod	ucts. The student is	concept of
		use of digital				expected to:			communicating with
		tools. The student							data into an early
		is expected to:							grade level. In
									addition, this
									concept was
									targeted for Grade 2
									to build foundations
									in data collection,
									communications,
									and mathematics
									skills before
									creating
									presentations with
									data visualizations.

	Strand: Data Literacy, Management, and Representation									
Substrand: Communicate and Publish Results										
Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Rationale	
		NEW (A) use a	NEW (A) use	NEW (A) use	NEW (A) use	NEW (A) use	NEW (A) use	NEW (A) use	The work group	
		digital tool to	technology to	technology to	technology to	technology to	technology to	technology to	coordinated the	
		individually or	communicate and	communicate and	communicate and	communicate and	communicate and	communicate and	development of	
		collaboratively	display data	display data to	display data using	display the data	display the data	publish the data	communications	
		create and	trends and	answer a	the appropriate	of a product or	of a product or	of a product or	including data	
		communicate	inferences to	question to	visualization to	process to inform	process to inform	process to	visualization with	
		data	inform an	inform an	inform an	an intended	or persuade an	persuade an	the skills developed	
		visualizations,	intended	intended	intended	audience	intended	intended	in substrand 2.	
		such as	audience	audience	audience		audience	audience	Scaffolding was	
		pictographs and				6.3.D process			created with the	
		bar graphs				<del>data and</del>	7.3.D process	8.3.D process	additions of	
						communicate	<del>data and</del>	<del>data and</del>	communication to	
						<del>results.</del>	communicate	communicate	an audience and	
							<del>results.</del>	<del>results.</del>	with purpose. The	
									21st century skills	
									were also discussed	
									in the definition of	
									the substrand.	