STANDARD	Core Concept	Sub-Concept	Grade Level	Grade Level Series in Sub-Concept	Practice 1	Practice 2	Practice 3	Identifier	Providers
Model daily processes by creating and following algorithms to complete tasks.	Computational Thinking & Programming	Algorithms	K-2	1	4.4			1A-CT-A-1	Code.org - Fundamentals Creative Computing With Scratch - CCS K-2 Creative Computing With Scratch - CCS 3-8: BootUp Curriculum URI - ICDS
Develop simple programs with sequences and simple repetitions	Computational Thinking & Programming	Control Structures	K-2	1	5.2			1A-CT-C-1	Code.org - Fundamentals Creative Computing With Scratch - CCS K-2 Creative Computing With Scratch - CCS 3-8: BootUp Curriculum PLTW - Launch URI - ICDS
Develop a plan that describes a what a computational artifact should look like and how it should perform.	Computational Thinking & Programming	Computational Design	K-2	1	5.1	7.2		1A-CT-CD-1	Code.org - Discoveries Creative Computing With Scratch - CCS K-2 PLTW - Launch URI - ICDS
Identify a task that includes sequences and simple loops.	Computational Thinking & Programming	Computational Design	K-2	2	6.2			1A-CT-CD-2	Creative Computing With Scratch - CCS K-2 PLTW - Launch URI - ICDS
Model real-world objects and/or processes that can be represented by various types of data.	Computational Thinking & Programming	Data Structures and Data Types	K-2	1	4.4			1A-CT-D-1	PLTW - Launch URI - ICDS
Decompose a task into a set of smaller tasks.	Computational Thinking & Programming	Modularity	K-2	1	3.2			1A-CT-M-1	Creative Computing With Scratch - CCS K-2 Creative Computing With Scratch - CCS 3-8: BootUp Curriculum Bootstrap - Algebra Bootstrap - Data Science PLTW - Launch URI - ICDS
Model real-world data and how it is stored.	Computational Thinking & Programming	Variables	K-2	1	5.2			1A-CT-V-1	Bootstrap - Data Science URI - ICDS
Identify the inputs and outputs of a computer system.	Computing Systems & Networks	Human-Computer Interfaces	K-2	1	7.2			1A-CSN-H-1	Code.org - Fundamentals
Use appropriate terminology in identifying and describing the function of common physical components of computing systems (hardware).	Computing Systems & Networks	Hardware and Software	K-2	1	7.2			1A-CSN-HS-1	Code.org - Fundamentals Code.org - Discoveries
Describe the Internet as a place to share and find information.	Computing Systems & Networks	Networks and the Internet	K-2	1	7.2			1A-CSN-N-1	Code.org - Discoveries URI - ICDS
Describe basic hardware and software problems using appropriate terminology.	Computing Systems & Networks	Troubleshooting	K-2	1	6.2	7.2		1A-CSN-T-1	
Compare and refine multiple algorithms for the same task and determine which is more appropriate to complete the task.	Computational Thinking & Programming	Algorithms	3-5	1	3.3	6.3		1B-CT-A-1	Creative Computing With Scratch - CCS 3-8: BootUp Curriculum PLTW - Launch URI - ICDS
Create programs that combine sequences, loops, conditionals, and/or events.	Computational Thinking & Programming	Control Structures	3-5	1	5.2			1B-CT-C-1	Code.org - Discoveries Creative Computing With Scratch - CCS 3-8: BootUp Curriculum PLTW - Launch URI - ICDS
Use an iterative process to plan the development of a computational artifact by including others' perspectives and considering user preferences.	Computational Thinking & Programming	Computational Design	3-5	1	1.1	5.1		1B-CT-CD-1	Code.org - Fundamentals Creative Computing With Scratch - CCS 3-8: BootUp Curriculum PLTW - Launch
Debug errors in an algorithm or program that includes sequences and simple loops.	Computational Thinking & Programming	Computational Design	3-5	2	6.2			1B-CT-CD-2	Code.org - Fundamentals Creative Computing With Scratch - CCS K-2 Creative Computing With Scratch - CCS 3-8: BootUp Curriculum PLTW - Launch URI - ICDS
Describe steps taken and choices made during the process of creating a computational artifact.	Computational Thinking & Programming	Computational Design	3-5	3	7.2			1B-CT-CD-3	Creative Computing With Scratch - CCS 3-8: BootUp Curriculum Bootstrap - Algebra Bootstrap - Data Science PLTW - Launch URI - ICDS
Identify real world examples of data structures and data types.	Computational Thinking & Programming	Data Structures and Data Types	3-5	1	3.1			1B-CT-D-1	Code.org - Discoveries PLTW - Launch URI - ICDS
Continually decompose problems into smaller subtasks until each subtask is a managable set of basic operations.	Computational Thinking & Programming	Modularity	3-5	1	3.2			1B-CT-M-1	Creative Computing With Scratch - CCS 3-8: BootUp Curriculum Bootstrap - Algebra Bootstrap - Data Science PLTW - Launch PLTW - CSE URI - ICDS
Create computational artifacts by incorporating existing modules into one's own work to solve a problem.	Computational Thinking & Programming	Modularity	3-5	2	4.2	5.3		1B-CT-M-2	Creative Computing With Scratch - CCS 3-8: BootUp Curriculum PLTW - Launch URI - ICDS
Create programs that use variables	Computational Thinking & Programming	Variables	3-5	1	5.2			1B-CT-V-1	Creative Computing With Scratch - CCS 3-8: BootUp Curriculum Bootstrap - Algebra Bootstrap - Data Science PLTW - Launch URI - ICDS
Describe how people interact with the various parts of computing systems to accomplish tasks.	Computing Systems & Networks	Human-Computer Interfaces	3-5	1	7.2			1B-CSN-H-1	PLTW - Launch
Model how computer hardware and software work together as a system to accomplish tasks.	Computing Systems & Networks	Hardware and Software	3-5	1	4.4			1B-CSN-HS-1	PLTW - Launch
Model how information is broken down into smaller pieces of data, transmitted as packets through multiple devices over networks and the Internet, and reassembled at the destination.	Computing Systems & Networks	Networks and the Internet	3-5	1	4.4			1B-CSN-N-1	Code.org - Fundamentals PLTW - Launch
Determine potential solutions to solve simple hardware and software problems using common troubleshooting strategies.	Computing Systems & Networks	Troubleshooting	3-5	1	6.2			1B-CSN-T-1	Code.org - Fundamentals
Describe the risks of sharing personal information, on websites or other public forums.	Cybersecurity	Risks	3-5	1	8.2			1B-CY-R-1	PLTW - Launch
Describe ways personal information can be obtained digitally.	Cybersecurity	Risks	3-5	2	8.2			1B-CY-R-2	PLTW - Launch
Describe the risks of others using one's personal resources or devices.	Cybersecurity	Risks	3-5	3	8.1	8.2		1B-CY-R-3	PLTW - Launch
Identify and describe unusual data or behaviors of applications and devices that should be reported to a responsible adult.	Cybersecurity	Response	3-5	1	8.1			1B-CY-RP-1	Code.org - Discoveries
Explain individual actions that protect personal electronic information and devices.	Cybersecurity	Safeguards	3-5	1	8.1			1B-CY-S-1	Code.org - Discoveries PLTW - Launch
Organize and present collected data to highlight relationships and support a claim.	Data & Analysis	Collection, Visualization, Transformation	3-5	1	4.1	7.1		1B-DA-CVT-1	Bootstrap - Data Science PLTW - Launch URI - ICDS
Use data to highlight or propose cause-and-effect relationships, predict outcomes, or communicate an idea.	Data & Analysis	Inferences and Models	3-5	1	5.1	7.1		1B-DA-IM-1	Bootstrap - Data Science PLTW - Launch URI - ICDS
Store, copy, search, retrieve, modify, and delete data using a computing device.	Data & Analysis	Storage	3-5	1	2.4	3.2		1B-DA-ST-1	Bootstrap - Data Science PLTW - Launch URI - ICDS
Use software tools to create and share multimedia artifacts.	Digital Literacy	Creation and Use	3-5	1	8.1			1B-DL-CU-1	Bootstrap - Algebra PLTW - Launch URI - ICDS
Conduct and refine multi-criteria searches over digital information.	Digital Literacy	Searching Digital Information	3-5	1	8.1			1B-DL-SDI-1	URI - ICDS
Describe the different high-level tasks that are common to software tools that students use.	Digital Literacy	Understanding Software Tools	3-5	1	8.1	8.3		1B-DL-US-1	PLTW - Launch URI - ICDS
Compare and contrast computing technologies that have changed the world, and express how those technologies influence, and are influenced by, cultural practices.	Responsible Computing & Society	Culture	3-5	1	3.1			1B-RC-CU-1	Code.org - Fundamentals
Identify ways to improve the accessibility and usability of technology products for the diverse needs and wants of users.	Responsible Computing & Society	Culture	3-5	2	1.2			1B-RC-CU-2	PLTW - Launch
Seek diverse perspectives for the purpose of improving computational artifacts.	Responsible Computing & Society	Social Interactions	3-5	1	1.1			1B-RC-SI-1	PLTW - Launch
Incorporate public domain or creative commons media into a digital artifact, and refrain from copying or using material created by others without permission.	Responsible Computing & Society	Safety, Law & Ethics	3-5	1	7.3			1B-RC-SLE-1	Code.org - Fundamentals
Use diagrams and/or pseudocode to plan, analyze, solve and/or code complex problems as algorithms.	Computational Thinking & Programming	Algorithms	6-8	1	4.1	4.4		2-CT-A-1	Creative Computing With Scratch - CCS 3-8: BootUp Curriculum PLTW - Gateway URI - ICDS

STANDARD	Core Concept	Sub-Concept	Grade Level	Grade Level Series in Sub-Concept	Practice 1	Practice 2	Practice 3	Identifier	Providers
Design programs that combine control structures, including nested loops and compound conditionals.	**Computational Thinking & Programming**	Control Structures	6-8	1	5.1	5.2		2-CT-C-1	Creative Computing With Scratch - CCS 3-8: BootUp Curriculum PLTW - Gateway
Seek and incorporate feedback from team members and users to refine a solution that meets user needs.	**Computational Thinking & Programming**	Computational Design	6-8	1	1.1	2.3		2-CT-CD-1	Creative Computing With Scratch - CCS 3-8: BootUp Curriculum PLTW - Gateway
Test and debug a program to ensure it runs as intended.	**Computational Thinking & Programming**	Computational Design	6-8	2	6.1	6.2		2-CT-CD-2	Creative Computing With Scratch - CCS 3-8: BootUp Curriculum Bootstrap - Algebra Bootstrap - Data Science PLTW - Gateway URI - ICDS
Describe choices made during development of computational artifacts.	**Computational Thinking & Programming**	Computational Design	6-8	3	7.2			2-CT-CD-3	Creative Computing With Scratch - CCS 3-8: BootUp Curriculum Bootstrap - Algebra Bootstrap - Data Science PLTW - Gateway URI - ICDS
Organize data into an appropriate data structure in a program.	**Computational Thinking & Programming**	Data Structures and Data Types	6-8	1	5.1			2-CT-D-1	PLTW - Gateway URI - ICDS
Decompose computational problems to facilitate the design and implementation of programs.	**Computational Thinking & Programming**	Modularity	6-8	1	3.3	5.1		2-CT-M-1	Creative Computing With Scratch - CCS 3-8: BootUp Curriculum Bootstrap - Algebra Bootstrap - Data Science PLTW - Gateway URI - ICDS
Create procedures with parameters to organize code and make it easier to reuse.	**Computational Thinking & Programming**	Modularity	6-8	2	4.1	4.3		2-CT-M-2	Code.org - Discoveries Creative Computing With Scratch - CCS 3-8: BootUp Curriculum Bootstrap - Algebra Bootstrap - Data Science PLTW - Gateway URI - ICDS
Create clearly named variables that represent different data. Perform operations on data stored in variables.	**Computational Thinking & Programming**	Variables	6-8	1	5.1	5.2		2-CT-V-1	Creative Computing With Scratch - CCS 3-8: BootUp Curriculum Bootstrap - Algebra Bootstrap - Data Science PLTW - Gateway URI - ICDS
Identify improvements to the design of computing devices, based on an analysis of how users interact with the devices.	**Computing Systems & Networks**	Human-Computer Interfaces	6-8	1	1.1			2-CSN-H-1	PLTW - Gateway
Design projects that combine hardware and software components to collect and use data to perform a function.	**Computing Systems & Networks**	Hardware and Software	6-8	1	5.1			2-CSN-HS-1	PLTW - Gateway
Model the role of protocols in transmitting data across networks and the Internet.	**Computing Systems & Networks**	Networks and the Internet	6-8	1	4.4			2-CSN-N-1	PLTW - Gateway
Identify and fix problems with computing devices and their components using a systematic troubleshooting method or guide.	**Computing Systems & Networks**	Troubleshooting	6-8	1	6.2			2-CSN-T-1	Code.org - Discoveries PLTW - Gateway
Describe tradeoffs between allowing information to be public and keeping information private and secure.	**Cybersecurity**	Risks	6-8	1	8.2			2-CY-R-1	PLTW - Gateway
Describe social engineering attacks and the potential risks associated with them.	**Cybersecurity**	Risks	6-8	2	8.2			2-CY-R-2	
Describe risks of using free and open services.	**Cybersecurity**	Risks	6-8	3	8.2			2-CY-R-3	
Describe which actions to take and not to take when an application or device reports a problem or behaves unexpectedly.	**Cybersecurity**	Response	6-8	1	8.2			2-CY-RP-1	PLTW - Gateway
Explain physical and digital security measures that protect electronic information.	**Cybersecurity**	Safeguards	6-8	1	8.2	8.3		2-CY-S-1	PLTW - Gateway
Demonstrate how multiple methods of encryption provide secure transmission of information.	**Cybersecurity**	Safeguards	6-8	2	8.2			2-CY-S-2	
Collect data using computational tools or online sources and transform the data to make it more useful and reliable.	**Data & Analysis**	Collection, Visualization, Transformation	6-8	1	6.2	6.3		2-DA-CVT-1	Bootstrap - Data Science PLTW - Gateway URI - ICDS
Create and refine computational models based on generated or gathered data.	**Data & Analysis**	Inferences and Models	6-8	1	4.4	5.3	6.1	2-DA-IM-1	URI - ICDS
Discuss potential visible biases that could exist in a dataset and how these biases could affect analysis conclusions.	**Data & Analysis**	Inferences and Models	6-8	2	1.3	7.1		2-DA-IM-2	Code.org - Discoveries Bootstrap - Data Science URI - ICDS
Store, retrieve, and share data to collaborate, using a cloud-based system.	**Data & Analysis**	Storage	6-8	1	2.4	5.3		2-DA-S T-1	URI - ICDS
Describe various low-level data transformations and identify which result in a loss of information	**Data & Analysis**	Storage	6-8	2	4.1	4.3		2-DA-ST-2	URI - ICDS
Use software tools to create artifacts that engage users over time.	**Digital Literacy**	Creation and Use	6-8	1	8.1			2-DL-CU-1	PLTW - Gateway URI - ICDS
Conduct searches over multiple types of digital information.	**Digital Literacy**	Searching Digital Information	6-8	1	8.1	8.2		2-DL-SDI-1	PLTW - Gateway URI - ICDS
Describe the different types of software components that support common tasks in software tools.	**Digital Literacy**	Understanding Software Tools	6-8	1	8.1	8.3		2-DL-US-1	PLTW - Gateway URI - ICDS
Compare and contrast tradeoffs associated with computing technologies that affect people's everyday activities and career options.	**Responsible Computing & Society**	Culture	6-8	1	7.2			2-RC-CU-1	PLTW - Gateway
Discuss issues of bias and accessibility in the design of existing technologies.	**Responsible Computing & Society**	Culture	6-8	2	1.2			2-RC-CU-2	PLTW - Gateway
Collaborate and strategize with many online contributors when creating a computational or digital artifact.	**Responsible Computing & Society**	Social Interactions	6-8	1	2.4	5.2		2-RC-SI-1	
Discuss how laws control use and access to intellectual property, and mandate broad access to information technologies.	**Responsible Computing & Society**	Safety, Law & Ethics	6-8	1	7.3			2-RC-SLE-1	PLTW - Gateway
Create computational artifacts that use algorithms to solve computational problems by leveraging prior knowledge and personal interests.	**Computational Thinking & Programming**	Algorithms	9-12	1	5.2			3-CT-A-1	Creative Computing With Scratch - CCS 3-8: BootUp Curriculum PLTW - AP CSP PLTW - CSE URI - ICDS Code.org - AP CSP
Create and justify the selection of specific control structures when tradeoffs involve code organization, readability, and program performance and explain the benefits and drawbacks of choices made.	**Computational Thinking & Programming**	Control Structures	9-12	1	5.2			3-CT-C-1	PLTW - AP CSP PLTW - CSE URI - ICDS Code.org - AP CSP
Systematically design and implement computational artifacts for targeted audiences by incorporating feedback from users.	**Computational Thinking & Programming**	Computational Design	9-12	1	5.1			3-CT-CD-1	PLTW - AP CSP PLTW - CSE Code.org - AP CSP
Systematically test and refine programs using a range of test cases.	**Computational Thinking & Programming**	Computational Design	9-12	2	6.1			3-CT-CD-2	Bootstrap - Algebra Bootstrap - Data Science PLTW - CSA
Document computational artifcacts in order to make them easier to follow, test, and debug.	**Computational Thinking & Programming**	Computational Design	9-12	3	7.2			3-CT-CD-3	Creative Computing With Scratch - CCS 3-8: BootUp Curriculum Bootstrap - Algebra Bootstrap - Data Science PLTW - AP CSP PLTW - CSE PLTW - Cyber Security 3A URI - ICDS Code.org - AP CSP
Create a program that processes a collection of data.	**Computational Thinking & Programming**	Data Structures and Data Types	9-12	1	5.2			3-CT-D-1	Bootstrap - Data Science PLTW - AP CSP PLTW - CSE URI - ICDS Code.org - AP CSP
Identify existing computational artifacts that can be used for the subtasks of a decomposed problem.	**Computational Thinking & Programming**	Modularity	9-12	1	3.2			3-CT-M-1	Bootstrap - Algebra PLTW - AP CSP PLTW - CSE URI - ICDS Code.org - AP CSP
Create computational artifacts by incorporating pre-defined procedures, self-defined procedures and external artifacts.	**Computational Thinking & Programming**	Modularity	9-12	2	5.2	5.3		3-CT-M-2	Bootstrap - Data Science PLTW - AP CSP PLTW - CSE URI - ICDS Code.org - AP CSP
Explain the role of a variable within a program, and the scope in which its name and value can be used.	**Computational Thinking & Programming**	Variables	9-12	1	4.1			3-CT-V-1	URI - ICDS

STANDARD	Core Concept	Sub-Concept	Grade Level	Grade Level Series in Sub-Concept	Practice 1	Practice 2	Practice 3	Identifier	Providers
Analyze a computing system and explain how abstractions simplify the underlying implementation details embedded in everyday objects.	Computing Systems & Networks	Human-Computer Interfaces	9-12	1	4.1			3-CSN-H-1	PLTW - AP CSP PLTW - CSE Code.org - AP CSP
Compare levels of abstraction and interactions between application software, system software, and hardware layers.	Computing Systems & Networks	Hardware and Software	9-12	1	4.1			3-CSN-HS-1	PLTW - AP CSP PLTW - CSE PLTW - Cyber Security 3A Code.org - AP CSP
Identify the various elements of a network and describe how they function and interact to transfer information.	Computing Systems & Networks	Networks and the Internet	9-12	1	7.2			3-CSN-N-1	PLTW - CSA PLTW - Cyber Security 3B
Develop and communicate troubleshooting strategies others can use to identify and fix errors.	Computing Systems & Networks	Troubleshooting	9-12	1	6.2			3-CSN-T-1	PLTW - CSE
Explain the privacy concerns related to the collection and generation of data through automated processes that may not be evident to users.	Cybersecurity	Risks	9-12	1	8.3			3-CY-R-1	PLTW - AP CSP Code.org - AP CSP
Analyze an existing or proposed application to identify the potential ways it could be used to obtain sensitive information.	Cybersecurity	Risks	9-12	2	3.1	8.2	8.3	3-CY-R-2	PLTW - AP CSP PLTW - CSE PLTW - Cyber Security 3A Code.org - AP CSP
Explain how the digital security of an organization may be affected by the actions of its employees.	Cybersecurity	Risks	9-12	3	8.1			3-CY-R-3	
Describe the appropriate actions to take in response to detected security breaches.	Cybersecurity	Response	9-12	1	8.3			3-CY-RP-1	
Recommend security measures to address various scenarios based on factors such as efficiency, feasibility, and ethical impacts.	Cybersecurity	Safeguards	9-12	1	8.3			3-CY-S-1	PLTW - AP CSP PLTW - CSE PLTW - Cyber Security 3A Code.org - AP CSP
Explain tradeoffs when selecting and implementing cybersecurity recommendations.	Cybersecurity	Safeguards	9-12	2	8.3			3-CY-S-2	Code.org - Fundamentals Code.org - Discoveries PLTW - AP CSP PLTW - CSE PLTW - Cyber Security 3A Code.org - AP CSP
Select appropriate data-collection tools and presentation techniques for different types of data.	Data & Analysis	Collection, Visualization, Transformation	9-12	1	4.1	7.2		3-DA-CVT-1	Bootstrap - Data Science URI - ICDS
Create computational models that represent the relationships among different elements of data collected from a phenomenon or process.	Data & Analysis	Inferences and Models	9-12	1	4.4	5.1	5.2	3-DA-IM-1	Code.org - Discoveries PLTW - AP CSP PLTW - Cyber Security 3A URI - ICDS Code.org - AP CSP
Discuss potential hidden biases that could be introduced while collecting a dataset and how these biases could affect analysis conclusions.	Data & Analysis	Inferences and Models	9-12	2	1.1	1.3	7.1	3-DA-IM-2	Code.org - Discoveries Bootstrap - Data Science URI - ICDS
Evaluate the ability of models and simulations to test and support the refinement of hypotheses.	Data & Analysis	Inferences and Models	9-12	3	4.4	6.3		3-DA-IM-3	Bootstrap - Data Science PLTW - CSA URI - ICDS
Explain tradeoffs between storing data locally or in central, cloud-based systems.	Data & Analysis	Storage	9-12	1	2.4	5.1		3-DA-ST-1	
Translate data for various real-world phenomena, such as characters, numbers, and images, into bits.	Data & Analysis	Storage	9-12	2	4.1			3-DA-ST-2	PLTW - AP CSP PLTW - Cyber Security 3A Code.org - AP CSP
Select appropriate software tools or resources to create a significant artifact or solve a problem.	Digital Literacy	Creation and Use	9-12	1	8.1	8.3		3-DL-CU-1	Code.org - Fundamentals PLTW - CSA URI - ICDS
Decompose a complex problem into multiple questions, identify which can be explored through digital sources, and synthesize query results using a variety of software tools.	Digital Literacy	Searching Digital Information	9-12	1	8.1	8.3		3-DL-SDI-1	Code.org - Discoveries URI - ICDS
Describe different kinds of computations that software tools perform to tailor a system to individual users.	Digital Literacy	Understanding Software Tools	9-12	1	8.1	8.3		3-DL-US-1	
Evaluate the ways computing impacts personal, ethical, social, economic, and cultural practices.	Responsible Computing & Society	Culture	9-12	1	1.2			3-RC-CU-1	PLTW - AP CSP PLTW - CSE PLTW - Cyber Security 3A Code.org - AP CSP
Design and analyze computational artifacts to reduce bias and equity deficits.	Responsible Computing & Society	Culture	9-12	2	1.2	6.3		3-RC-CU-2	PLTW - AP CSP PLTW - CSE Code.org - AP CSP
Evaluate the impact of equity, access, and influence on the distribution of computing resources in a global society.	Responsible Computing & Society	Culture	9-12	3	1.2			3-RC-CU-3	PLTW - CSE PLTW - CSA
Use tools and methods for collaboration on a project to increase connectivity between people in different cultures and career fields.	Responsible Computing & Society	Social Interactions	9-12	1	2.4			3-RC-SI-1	PLTW - AP CSP PLTW - CSE PLTW - Cyber Security 3A Code.org - AP CSP
Evaluate the impact of intellectual property laws on the use of digital information.	Responsible Computing & Society	Safety, Law & Ethics	9-12	1	7.3			3-RC-SLE-1	PLTW - AP CSP Code.org - AP CSP
Evaluate the social and economic implications of privacy and free speech in the context of safety, law, or ethics.	Responsible Computing & Society	Safety, Law & Ethics	9-12	2	7.3			3-RC-SLE-2	PLTW - AP CSP PLTW - CSE Code.org - AP CSP
Keep login and personal information private, and log off of devices appropriately.	Cybersecurity	Risks	K-2	1	8.1			1A-CY-R-1	
Identify situations and devices that should be reported to a responsible adult.	Cybersecurity	Response	K-2	1	8.1			1A-CY-RP-1	Code.org - Fundamentals
Recognize basic digital security features.	Cybersecurity	Safeguards	K-2	1	8.1			1A-CY-S-1	Code.org - Fundamentals
Collect and present the same data in multiple formats.	Data & Analysis	Collection, Visualization, Transformation	K-2	1	4.4	7.2		1A-DA-CVT-1	Code.org - Discoveries PLTW - Launch URI - ICDS
Identify and describe patterns in data presentations, such as charts or graphs, to make predictions.	Data & Analysis	Inferences and Models	K-2	1	4.1			1A-DA-IM-1	Bootstrap - Data Science URI - ICDS
Identify data as information that is stored by software.	Data & Analysis	Storage	K-2	1	4.2			1A-DA-ST-1	Code.org - Fundamentals
Use software tools to create simple digital artifacts.	Digital Literacy	Creation and Use	K-2	1	8.1			1A-DL-CU-1	Code.org - Fundamentals Bootstrap - Algebra Bootstrap - Data Science PLTW - Launch URI - ICDS
Conduct basic digitalm searches .	Digital Literacy	Searching Digital Information	K-2	1	8.1			1A-DL-SDI-1	Code.org - Fundamentals URI - ICDS
Describe basic differences between humans and computers for performing computational tasks.	Digital Literacy	Understanding Software Tools	K-2	1	8.1	8.3		1A-DL-US-1	PLTW - Launch
Compare and contrast how individuals live and work before and after the implementation or adoption of new computing technology.	Responsible Computing & Society	Culture	K-2	1	3.1			1A-RC-CU-1	Code.org - Discoveries PLTW - Launch
Work respectfully and responsibly with others online.	Responsible Computing & Society	Social Interactions	K-2	1	2.1			1A-RC-SI-1	
Discuss ownership and attribution of digital artifacts.	Responsible Computing & Society	Safety, Law & Ethics	K-2	1	7.3			1A-RC-SLE-1	Creative Computing With Scratch - CCS 3-8: BootUp Curriculum