Legend for Identifiers

Unique Numbering System for the 2016 K–12 Computer Science Learning Standards

To help organize and track each individual standard, a unique identifier was developed. An example appears below:

Grades	Identifier	Computer Science K-12 Learning Standard	Framework Concept	Framework Practice
9–10	3A-A-2-1	Design and develop a software artifact working in a team.	Algorithms and Programming	Collaborating

Use the following legend to interpret the unique identifier for each Computer Science K–12 Learning Standard:

The identifier code corresponds to: Level – Concept – Practice – Identifier				
Identifier Code		Кеу		
Levels	1A	Grades K–2		
	1B	Grades 3–5		
	2	Grades 6–8		
	3A	Grades 9–10		
	3B	Grades 11–12		
Concepts	Α	Algorithms and Programming		
	С	Computing Systems		
	D	Data and Analysis		
	l	Impacts of Computing		
	N	Networks and the Internet		
	1	Fostering an Inclusive Computing Culture		
	2	Collaborating		
ces	3	Recognizing and Defining Computational Problems		
Practices	4	Developing and Using Abstractions		
	5	Creating Computational Artifacts		
	6	Testing and Refining		
	7	Communicating about Computing		

Figure 4: Standards Identifier Code - Interim Computer Science Teachers Association K–12 Computer Science Standards (2016) Retrieved from http://www.csteachers.org

K-2	Level 1A			
1A-A-7-1	Give credit when using code, music, or pictures (for example) that were created by			
	others.			
1A-A-5-2	Construct programs, to accomplish a task or as a means of creative expression, which			
	include sequencing, events, and simple loops, using a block-based visual programming			
	language, both independently and collaboratively (e.g., pair programming).			
1A-A-5-3	Plan and create a design document to illustrate thoughts, ideas, and stories in a			
	sequential (step-by-step) manner (e.g., story map, storyboard, sequential graphic			
	organizer).			
1A-A-4-4	Use numbers or other symbols to represent data (e.g., thumbs up/down for yes/no, color			
	by number, arrows for direction, encoding/decoding a word using numbers or			
	pictographs).			
1A-A-3-5	Decompose (break down) a larger problem into smaller sub-problems with teacher			
	guidance or independently.			
1A-A-3-6	Categorize a group of items based on the attributes or actions of each item, with or			
	without a computing device.			
	Construct and execute algorithms (sets of step-by-step instructions) that include			
1A-A-3-7	sequencing and simple loops to accomplish a task, both independently and			
	collaboratively, with or without a computing device.			
1A-A-6-8	Analyze and debug (fix) an algorithm that includes sequencing and simple loops, with or			
	without a computing device.			
1A-C-7-9	Identify and use software that controls computational devices (e.g., use an app to draw			
	on the screen, use software to write a story or control robots).			
146710	Use appropriate terminology in naming and describing the function of common			
1A-C-7-10	computing devices and components (e.g., desktop computer, laptop computer, tablet			
	device, monitor, keyboard, mouse, printer).			
1A-C-6-11	Identify, using accurate terminology, simple hardware and software problems that may			
1A-C-0-11	occur during use (e.g., app or program not working as expected, no sound, device won't turn on).			
1A-D-7-12	Collect data over time and organize it in a chart or graph in order to make a prediction.			
1A-D-7-12	Use a computing device to store, search, retrieve, modify, and delete information and			
1A-D-4-13	define the information stored as data.			
	Create a model of an object or process in order to identify patterns and essential			
1A-D-4-14	elements (e.g., water cycle, butterfly life cycle, seasonal weather patterns).			
1A-I-7-15	Compare and contrast examples of how computing technology has changed and			
	improved the way people live, work, and interact.			
1A-N-2-16	Use computers or other computing devices to connect with people using a network (e.g.,			
	the Internet) to communicate, access, and share information as a class.			
1A-N-7-17				
1A-N-7-17	Use passwords to protect private information and discuss the effects of password misuse			