

CSTA Student Standards

View the [K-12 CSTA Standards](#) and [CSTA Standards Progression Chart](#).

Light Show Kit - Summary

Mission	Silly Stories (Cybersecurity Edition)	Color Coded	Light Show	Light Show Animation
Key Skills & Competencies	Write a program with multiple variables that returns user input as strings, discuss cybersecurity	Build a circuit with a color sensor; graph color data, compare RBG values to known colors	Build a circuit with a 64-bit LED matrix; learn how RGB LEDs work, Design images with RGB LEDs	Build a circuit with a 64-bit LED matrix; Program a simple animation; Encode and decode messages to a classmate
Vocabulary	Cybersecurity, data, variable, console, concatenation	Wavelength, RBG values, variable, console	Binary, bit, bit depth, RBG LEDs	RBG LEDs, bit, encode, decode, end-to-end encryption
Build Difficulty	N/A	Beginner	Intermediate	Intermediate
Code Difficulty	Intermediate	Intermediate	Beginner	Intermediate

LIGHT SHOW KIT - CSTA LEVEL 1B (Grades 3-5) ALIGNMENT

Mission		Silly Stories (Cybersecurity)	Color Coded	Light Show	Light Show Animation
Computing Systems					
Devices in a system	1B-CS-01		✓	✓	
Hardware & software	1B-CS-02		✓	✓	✓
Troubleshooting	1B-CS-03	✓	✓	✓	✓
Networks and the Internet					
Cybersecurity	1B-NI-05	✓			✓
Data & Analysis					
Organize data visually	1B-DA-06		✓		
Algorithms & Programming					
Variables	1B-AP-09	✓	✓		
Sequence, loops, conditionals	1B-AP-10	✓	✓	✓	✓
Decomposition	1B-AP-11	✓	✓	✓	✓
Modify & remix programs	1B-AP-12			✓	✓
Test & debug	1B-AP-15	✓	✓	✓	✓

Note: There are 23 CSTA standards in Level 2. For better readability, the standards in the table show only the standards covered by the Light Show Kit.

LIGHT SHOW KIT - CSTA LEVEL 2 (Grades 6-8) ALIGNMENT

Mission	Silly Stories (Cybersecurity)	Color Coded	Light Show	Light Show Animation
<i>Computing Systems</i>				
Hardware & software 2-CS-02		✓	✓	✓
Troubleshooting 2-CS-03	✓	✓	✓	✓
<i>Networks and the Internet</i>				
Physical & digital security 2-NI-05	✓			
Encryption 2-NI-06				✓
<i>Data & Analysis</i>				
Data encoding 2-DA-07		✓	✓	✓
Refine models 2-DA-09		✓		
<i>Algorithms & Programming</i>				
Variables 2-AP-11	✓	✓		
Compound conditionals 2-AP-12		✓		
Decomposition 2-AP-13	✓	✓	✓	✓
Remix & attribute 2-AP-16			✓	✓

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