

ISTE Student Standards

View the 28 [ISTE Student Standards](#) in their entirety and accompanying explanation videos.

1.1 Empowered Learner

Students leverage technology to take an active role in choosing, achieving and demonstrating competency in their learning goals, informed by the learning sciences.

1.2 Digital Citizen

Students recognize the rights, responsibilities and opportunities of living, learning and working in an interconnected digital world, and they act and model in ways that are safe, legal and ethical.

1.3 Knowledge Constructor

Students critically curate a variety of resources using digital tools to construct knowledge, produce creative artifacts and make meaningful learning experiences for themselves and others.

1.4 Innovative Designer

Students use a variety of technologies within a design process to identify and solve problems by creating new, useful or imaginative solutions.

1.5 Computational Thinker

Students develop and employ strategies for understanding and solving problems in ways that leverage the power of technological methods to develop and test solutions.

1.6 Creative Communicator

Students communicate clearly and express themselves creatively for a variety of purposes using the platforms, tools, styles, formats and digital media appropriate to their goals.

1.7 Global Collaborator

Students use digital tools to broaden their perspectives and enrich their learning by collaborating with others and working effectively in teams locally and globally.

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 - ISTE STANDARDS ALIGNMENT

Mission	Silly Stories (Cybersecurity)	Color Coded	Light Show	Light Show Animation
Empowered Learner				
Feedback to Improve Practice 1.1.c	✓	✓	✓	✓
Technology Operations 1.1.d	✓	✓	✓	✓
Digital Citizen				
Digital Privacy 1.2.d	✓			
Knowledge Constructor				
Real-World Issues 1.3.d	✓			
Innovative Designer				
Open-Ended Problems 1.4.d	✓			✓
Computational Thinker				
Data Sets 1.5.b		✓		
Decomposition 1.5.c	✓	✓	✓	✓
Algorithmic Thinking 1.5.d	✓	✓	✓	✓
Creative Communicator				
Original/Remixed Works 1.6.b	✓		✓	✓
Models & Visualizations 1.6.c		✓	✓	✓
Customize the Message 1.6.d	✓			
Global Collaborator				
Project Teams 1.7.c	?	?	?	?

Note: There are 28 ISTE standards. For better readability, the standards in the table show only the standards covered by the Light Show Kit.