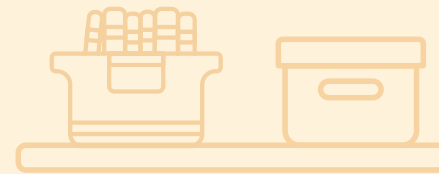




Content Alignment for New York State Computer Science and Digital Fluency Learning Standards (K-12)



Nearpod Content Alignment for NYS Computer Science and Digital Fluency Learning Standards (K-12)

This alignment aims to support teachers with the New York State Computer Science and Digital Fluency learning standards by using content from Nearpod's 21st Century Readiness Program, as well as content from other Nearpod libraries. Through this alignment, teachers can easily find and access standards-aligned computer science and digital fluency content that empowers students to use technology safely, ethically, and effectively in both classroom and real-world settings. The Nearpod content featured in this alignment is aligned to each of the five key concepts for computer science and digital fluency.

[Grades K-12 Standards Examples](#)

[Scope & Sequence \(K-1\)](#)

[Scope & Sequence \(2-3\)](#)

[Scope & Sequence \(4-6\)](#)

[Scope & Sequence \(7-8\)](#)

[Scope & Sequence \(9-12\)](#)

See something out of place? At Nearpod, we are continuously striving to improve our products to provide teachers with the best experience. Email us at contentalert@nearpod.com!

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K-1

Impacts of Computing	
Society	
<p>K-1.IC.1: Identify and discuss how tasks are accomplished with and without computing technology.</p>	Nearpod Lesson
	Technology in the Workplace (Nearpod Team)
	Using Technology in the Workplace (Nearpod Team - Drag & Drop)
	Using the Internet (Nearpod Team - Drag & Drop)
	Online Community (Nearpod Team - Drag & Drop)
	Offline vs. Online Communication Venn Diagram (Nearpod Team - Draw It)
	Spanish: Diagrama de Venn sobre la comunicación en línea (Nearpod Team - Draw It)
	Portuguese: Comunicação online e offline: Diagrama de Venn (Nearpod Team - Draw It)
<p>K-1.IC.2: Identify and explain classroom and home rules related to computing technologies.</p>	Nearpod Lesson
	Device-Free Moments (Common Sense Education)
	Spanish: Momentos libres de dispositivos (Common Sense Education)
	Rules for Technology (Nearpod Team - Draw It)
	Technology Rules in the Classroom (Nearpod Team - Drag & Drop)
	My Technology Rules (Nearpod Team - Drag & Drop)
	Technology in the Home & Classroom (Nearpod Team - Draw It)

Ethics	
K-1.IC.3: Identify computing technologies in the classroom, home, and community.	Nearpod Lesson
	Identifying Collaboration and Communication Tools (Nearpod Team)
	The Internet of Things (Nearpod Team)
	Connecting Online (Nearpod Team - Draw It)
	Using Technology in the Workplace (Nearpod Team - Drag & Drop)
	Collaboration and Communication Tools (Nearpod Team - Matching Pairs)
	Spanish: <u>Herramientas de colaboración y comunicación (Nearpod Team - Matching Pairs)</u>
	Portuguese: <u>Ferramentas de colaboração e comunicação (Nearpod Team - Matching Pairs)</u>
	Smart Devices (Nearpod Team - Matching Pairs)
	Spanish: <u>Dispositivos inteligentes (Nearpod Team - Matching Pairs)</u>
	Portuguese: <u>Dispositivos tecnológicos (Nearpod Team - Matching Pairs)</u>
	Technology in the Home & Classroom (Nearpod Team - Draw It)
	How Do Cell Phones Work? (Peekaboo Kidz)
	The Cell Phone (The Fixies)
	SMS (The Fixies)
	The Video Call (The Fixies)
Staying in Touch (PBS Kids Videos)	
Phone Fun (PBS Kids Videos)	

K-1.IC.4: Identify public and private spaces in our daily lives.	Nearpod Lesson
	That's Private! (Common Sense Education)
	Spanish: ¡Eso es privado! (Common Sense Education)
	Internet Traffic Light (Common Sense Education)
	Spanish: Semáforo de internet (Common Sense Education)
	Private Information (Nearpod Team - Draw It)

Accessibility

K-1.IC.6: With teacher support, identify different ways people interact with computers and computing devices.	Nearpod Lesson
	Getting Help (Nearpod Team)
	Connecting Online (Nearpod Team - Draw It)
	Connecting on the Internet (Nearpod Team - Drag & Drop)

Career Paths

K-1.IC.7: Identify multiple jobs that use computing technologies.	Nearpod Lesson
	Virtual Career Fair: STEM (Nearpod Team)
	"Software Engineer" Songs About Professions (Netflix Jr.)

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Computational Thinking

Modeling and Simulation

K-1.CT.1: Identify and describe one or more patterns (found in nature or designed), and examine the patterns to find similarities and make predictions.

Nearpod Lesson

[Introduction: Patterns in Nature \(Nearpod Team\)](#)

[Guided Research: Patterns in Nature \(Nearpod Team\)](#)

[Research Workshop: Patterns in Nature \(Nearpod Team\)](#)

[Reflection: Patterns in Nature \(Nearpod Team\)](#)

[What's the Pattern? \(Nearpod Team\)](#)

[Do You Know the Pattern? \(Nearpod Team\)](#)

Data Analysis and Visualization

K-1.CT.2: Identify different kinds of data that can be collected from everyday life.

Nearpod Lesson

[Data in the Real World \(Nearpod Team\)](#)

[Visualizing and Manipulating Data \(Nearpod Team\)](#)

[Data & Technology \(Nearpod Team - Drag & Drop\)](#)

[Collecting Data \(Nearpod Team - Drag & Drop\)](#)

K-1.CT.3: Identify ways to visualize data, and collaboratively create a visualization of data.

Nearpod Lesson

[Visualizing and Manipulating Data \(Nearpod Team\)](#)

[Data & Technology \(Nearpod Team - Drag & Drop\)](#)

[Creating Data Visualizations \(Nearpod Team - Drag & Drop\)](#)

[Using Data & Technology \(Nearpod Team - Drag & Drop\)](#)

[Data \(Nearpod Team - Draw It\)](#)

[Picture Graphs \(Nearpod Team - Draw It\)](#)

[Picture Graphs \(Mage Math\)](#)

	Types of Graphs (Nearpod Team - Matching Pairs)
	Spanish: Los tipos de gráficos (Nearpod Team - Matching Pairs)
	Portuguese: Estilos de gráficos (Nearpod Team - Matching Pairs)
	Line Plots for Kids (Kids Academy)
	Line Plots (Mage Math)

Abstraction and Decomposition

K-1.CT.4: Identify a problem or task and discuss ways to break it into multiple smaller steps.	Nearpod Lesson
	Collaboration (Nearpod Team - Draw It)
	Solving Problems (Nearpod Team)
	Looking at Problems in New Ways (Nearpod Team)

Algorithms and Programming

K-1.CT.6: Follow an algorithm to complete a task.	Nearpod Lesson
	Lesson 1: Algorithms (Nearpod Team)

K-1.CT.7: Identify terms that refer to different concrete values over time.	Nearpod Lesson
	Days, Weeks & Months (Super Geek Heroes)
	Days, Weeks, Month & Year (Little Smart Planet)
	The Four Seasons & Time (Little Smart Planet)
	<u>Spanish Language</u>
	Los días de la semana y los meses del año (Basho & Friends)

K-1.CT.8: Identify a task consisting of steps that are repeated, and recognize which steps are repeated.	Nearpod Lesson
	Collaboration (Nearpod Team - Draw It)

K-1.CT.9: Identify and fix (debug) errors within a simple algorithm.	Nearpod Lesson
	Lesson 1: Algorithms (Nearpod Team)
	Lesson 2: Debugging (Nearpod Team)

K-1.CT.10: Collaboratively create a plan that outlines the steps needed to complete a task.

Nearpod Lesson

[Collaboration \(Nearpod Team - Draw It\)](#)

[Technology & Collaboration \(Nearpod Team - Drag & Drop\)](#)

[The Design Process \(Nearpod Team - Draw It\)](#)

[The Design Process \(Nearpod Team - Drag & Drop\)](#)

[Organizational Skills \(Nearpod Team\)](#)

[Metacognition \(Nearpod Team\)](#)

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Networks & System Design

Hardware and Software

K-1.NSD.1: Identify ways people provide input and get output from computing devices.

Nearpod Lesson

[Using Peripherals \(Nearpod Team\)](#)

[Technology Terminology \(Nearpod Team - Drag & Drop\)](#)

K-1.NSD.2: Identify basic hardware components that are found in computing devices.

Nearpod Lesson

[Basic Hardware \(Nearpod Team - Time to Climb\)](#)

[Hardware Components \(Nearpod Team - Drag & Drop\)](#)

[Input & Output Devices \(Nearpod Team - Drag & Drop\)](#)

[What Are Computers? \(Socratica Kids\)](#)

[Computer Vocabulary \(Nearpod Team - Matching Pairs\)](#)

Spanish: [Vocabulario sobre computación \(Nearpod Team - Matching Pairs\)](#)

Portuguese: [Vocabulário sobre computadores \(Nearpod Team - Matching Pairs\)](#)

[Computer Terminology \(Nearpod Team - Time to Climb\)](#)

Spanish: [Terminología sobre computación \(Nearpod Team - Time to Climb\)](#)

Portuguese: [Terminologia de computadores \(Nearpod Team - Time to Climb\)](#)

K-1.NSD.3: Identify basic hardware and/or software problems.

Nearpod Lesson

[Getting Help \(Nearpod Team\)](#)

[Troubleshooting \(Nearpod Team - Drag & Drop\)](#)

Networks and the Internet	
<p>K-1.NSD.4: Identify how protocols/ rules help people share information over long distances.</p>	Nearpod Lesson
	Identifying Collaboration and Communication Tools (Nearpod Team)
	Connecting Online (Nearpod Team - Draw It)
	Sharing Information (Nearpod Team - Time to Climb)
	Sharing Information (Nearpod Team - Drag & Drop)
	Connecting on the Internet (Nearpod Team - Drag & Drop)
	Internet Vocabulary (Nearpod Team - Matching Pairs)
	Spanish: Vocabulario sobre internet (Nearpod Team - Matching Pairs)
	Portuguese: Vocabulario da internet (Nearpod Team - Matching Pairs)
	Internet Terminology (Nearpod Team - Time to Climb)
	Spanish: Terminología sobre internet (Nearpod Team - Time to Climb)
Portuguese: Terminologia da internet (Nearpod Team - Time to Climb)	
<p>K-1.NSD.5: Identify physical devices that can store information.</p>	Nearpod Lesson
	Data in the Real World (Nearpod Team)
	The Internet of Things (Nearpod Team)
	File Organization (Nearpod Team - Drag & Drop)

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Cybersecurity

Risks

K-1.CY.1: Identify reasons for keeping information private.

Nearpod Lesson

[Private Information \(Nearpod Team - Draw It\)](#)

[Online Safety \(Nearpod Team - Drag & Drop\)](#)

[Online Privacy \(Nearpod Team - Drag & Drop\)](#)

[That's Private! \(Common Sense Education\)](#)

Spanish: [¡Eso es privado! \(Common Sense Education\)](#)

[Internet Traffic Light \(Common Sense Education\)](#)

Spanish: [Semáforo de internet \(Common Sense Education\)](#)

[Safety in My Online Neighborhood \(Common Sense Education\)](#)

Spanish: [Seguridad en mi vecindario en línea \(Common Sense Education\)](#)

Safeguards

K-1.CY.2: Identify simple ways to help keep accounts secure.

Nearpod Lesson

[Keeping My Account Safe \(Nearpod Team - Time to Climb\)](#)

[Keeping My Account Secure \(Nearpod Team - Drag & Drop\)](#)

[Creating a Strong Password \(Nearpod Team - Drag & Drop\)](#)

[The Combination Lock \(The Fixies\)](#)

Response

K-1.CY.5: Identify when it is appropriate to open and/or click on links or files.

Nearpod Lesson

[Internet Traffic Light \(Common Sense Education\)](#)

Spanish: [Semáforo de internet \(Common Sense Education\)](#)

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Digital Literacy

Digital Use

K-1.DL.1: Identify and explore the keys on a keyboard.

Nearpod Lesson

- [Healthy Keyboarding Habits \(Nearpod Team\)](#)
- [Keyboarding \(Nearpod Team - Time to Climb\)](#)
- [Keyboarding: Part 1 \(Nearpod Team - Drag & Drop\)](#)
- [Keyboarding: Part 2 \(Nearpod Team - Drag & Drop\)](#)
- [Keyboarding: Home Row Bundle \(Typesy\)](#)
- [Keyboarding: Symbols Bundle \(Typesy\)](#)
- [Keyboarding: Top Row Bundle \(Typesy\)](#)
- [Keyboarding: Bottom Row Bundle \(Typesy\)](#)
- [Keyboarding: Shift Keys Bundle \(Typesy\)](#)
- [Keyboarding: Punctuation Bundle \(Typesy\)](#)
- [Keyboarding: Numbers Bundle \(Typesy\)](#)
- [The Keyboard \(The Fixies\)](#)

K-1.DL.2: Communicate and work with others using digital tools.

Nearpod Lesson

- [Identifying Collaboration and Communication Tools \(Nearpod Team\)](#)
- [Collaboration \(Nearpod Team - Draw It\)](#)
- [Technology & Collaboration \(Nearpod Team - Drag & Drop\)](#)
- [Digital Tools & Communication \(Nearpod Team - Drag & Drop\)](#)
- [Collaboration and Communication Tools \(Nearpod Team - Matching Pairs\)](#)
- Spanish: [Herramientas de colaboración y comunicación \(Nearpod Team - Matching Pairs\)](#)

	<p>Portuguese: Ferramentas de colaboração e comunicação (Nearpod Team - Matching Pairs)</p>
	<p>The Video Call (The Fixies)</p>
<p>K-1.DL.3: Conduct a basic search based on a provided keyword.</p>	<p>Nearpod Lesson</p>
	<p>Basic Keywords (Nearpod Team)</p>
	<p>Searching with Keywords (Nearpod Team - Draw It)</p>
	<p>Using Keywords to Search (Nearpod Team - Drag & Drop)</p>
	<p>Basic Keyword Searches (Nearpod Team - Drag & Drop)</p>
<p>K-1.DL.4: Use at least one digital tool to create a digital artifact.</p>	<p>Nearpod Lesson</p>
	<p>Creating Presentations (Nearpod Team)</p>
	<p>Creating Documents (Nearpod Team)</p>
	<p>Creating Presentations with Digital Tools (Nearpod Team - Drag & Drop)</p>
	<p>Creating Documents with Digital Tools (Nearpod Team - Drag & Drop)</p>
	<p>Editing Documents (Nearpod Team - Drag & Drop)</p>
<p style="text-align: center;">Digital Citizenship</p>	
<p>K-1.DL.7: Identify actions that promote good digital citizenship and those that do not.</p>	<p>Nearpod Lesson</p>
	<p>Technology Use (Nearpod Team - Draw It)</p>
	<p>Being Responsible with Devices (Nearpod Team - Draw It)</p>
	<p>Rules for Technology (Nearpod Team - Draw It)</p>
	<p>Being a Good Digital Citizen (Nearpod Team - Time to Climb)</p>
	<p>Online Behaviors (Nearpod Team - Draw It)</p>
	<p>Giving Credit (Nearpod Team - Draw It)</p>
	<p>Your Digital Footprint (Nearpod Team - Time to Climb)</p>
	<p>Thinking About Technology Use (Nearpod Team - Drag & Drop)</p>

[Using Technology \(Nearpod Team - Drag & Drop\)](#)

[Digital Distractions \(Nearpod Team - Drag & Drop\)](#)

[Creating Device-Free Moments \(Nearpod Team - Drag & Drop\)](#)

[Being a Good Digital Citizen \(Nearpod Team - Drag & Drop\)](#)

[Being Safe & Responsible Online \(Nearpod Team - Drag & Drop\)](#)

[Your Digital Trail \(Nearpod Team - Drag & Drop\)](#)

[Being Kind Online \(Nearpod Team - Drag & Drop\)](#)

[Online Experiences \(Nearpod Team - Drag & Drop\)](#)

[Staying Safe Online \(Nearpod Team - Drag & Drop\)](#)

[Crediting Sources \(Nearpod Team - Drag & Drop\)](#)

[Sharing Online \(Nearpod Team - Drag & Drop\)](#)

[Leaving a Digital Trail \(Nearpod Team - Drag & Drop\)](#)

[Using Media Responsibly \(Nearpod Team - Drag & Drop\)](#)

[Balancing the Use of Media \(Nearpod Team - Drag & Drop\)](#)

[You & Your Digital Billboard \(CyberWise\)](#)

[How to be an Upstander to Cyberbullying \(CyberWise\)](#)

[That's Private! \(Common Sense Education\)](#)

Spanish: [¡Eso es privado! \(Common Sense Education\)](#)

[Internet Traffic Light \(Common Sense Education\)](#)

Spanish: [Semáforo de internet \(Common Sense Education\)](#)

[Pause & Think Online \(Common Sense Education\)](#)

Spanish: [Pausar y pensar en línea \(Common Sense Education\)](#)

[Pause for People \(Common Sense Education\)](#)

Spanish: [Pausar para las personas \(Common Sense Education\)](#)

[Media Balance is Important \(Common Sense Education\)](#)

Spanish: [El Equilibrio en los medios es importante \(Common Sense Education\)](#)

[How Technology Makes You Feel \(Common Sense Education\)](#)

Spanish: [Cómo te hace sentir la tecnología \(Common Sense Education\)](#)

[Safety in My Online Neighborhood \(Common Sense Education\)](#)

Spanish: [Seguridad en mi vecindario en línea \(Common Sense Education\)](#)

[Cyberbullying \(Nearpod Team - Time to Climb\)](#)

Spanish: [El ciberacoso \(Nearpod Team - Time to Climb\)](#)

Portuguese: [Cyberbullying \(Nearpod Team - Time to Climb\)](#)

[Cyberbullying Frayer Model \(Nearpod Team - Draw It\)](#)

Spanish: [Modelo Frayer sobre ciberacoso \(Nearpod Team - Draw It\)](#)

Portuguese: [Cyberbullying: Diagrama de Frayer \(Nearpod Team - Draw It\)](#)

[Safe Online Behavior \(Nearpod Team - Time to Climb\)](#)

Spanish: [Comportamientos seguros en línea \(Nearpod Team - Time to Climb\)](#)

Portuguese: [Comportamento seguro online \(Nearpod Team - Time to Climb\)](#)

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2-3

Impacts of Computing

Society

2-3.IC.1: Identify and analyze how computing technology has changed the way people live and work.

Nearpod Lesson

[Technology in the Workplace \(Nearpod Team\)](#)

[The Power of Technology \(Nearpod Team\)](#)

[Operating Systems \(Nearpod Team\)](#)

[Changing Technology \(Nearpod Team - Draw It\)](#)

[Using Technology in the Workplace \(Nearpod Team - Drag & Drop\)](#)

[Using the Internet \(Nearpod Team - Drag & Drop\)](#)

[Online Community \(Nearpod Team - Drag & Drop\)](#)

[Advancements in Technology \(Nearpod Team - Drag & Drop\)](#)

[Influence & Technology \(Nearpod Team - Drag & Drop\)](#)

[Technology Access \(Nearpod Team - Drag & Drop\)](#)

[Offline vs. Online Communication Venn Diagram \(Nearpod Team - Draw It\)](#)

Spanish: [Diagrama de Venn sobre la comunicación en línea \(Nearpod Team - Draw It\)](#)

Portuguese: [Comunicação online e offline: Diagrama de Venn \(Nearpod Team - Draw It\)](#)

[Smart Devices \(Nearpod Team - Matching Pairs\)](#)

Spanish: [Dispositivos inteligentes \(Nearpod Team - Matching Pairs\)](#)

Portuguese: [Dispositivos tecnológicos \(Nearpod Team - Matching Pairs\)](#)

2-3.IC.2: Compare and explain rules related to computing technologies and digital information.

Nearpod Lesson

[Creative Credit \(Nearpod Team - Time to Climb\)](#)

[Device-Free Moments \(Common Sense Education\)](#)

Spanish: [Momentos libres de dispositivos \(Common Sense Education\)](#)

[That's Private! \(Common Sense Education\)](#)

Spanish: [¡Eso es privado! \(Common Sense Education\)](#)

[Rings of Responsibility \(Common Sense Education\)](#)

Spanish: [Los anillos de la responsabilidad \(Common Sense Education\)](#)

[Rules for Technology \(Nearpod Team - Draw It\)](#)

[Technology Rules in the Classroom K-2 \(Nearpod Team - Drag & Drop\)](#)

[My Technology Rules K-2 \(Nearpod Team - Drag & Drop\)](#)

[Technology Rules in the Classroom 3-5 \(Nearpod Team - Drag & Drop\)](#)

[My Technology Rules 3-5 \(Nearpod Team - Drag & Drop\)](#)

[Copyright, Credit & Plagiarism \(Nearpod Team - Drag & Drop\)](#)

[Crediting Sources \(Nearpod Team - Drag & Drop\)](#)

Ethics

2-3.IC.3: Discuss and explain how computing technology can be used in society and the world.

Nearpod Lesson

[Computer Behavior \(Nearpod Team\)](#)

[Operating Systems \(Nearpod Team\)](#)

[Connecting Online \(Nearpod Team - Draw It\)](#)

[Smart Devices \(Nearpod Team - Matching Pairs\)](#)

Spanish: [Dispositivos inteligentes \(Nearpod Team - Matching Pairs\)](#)

Portuguese: [Dispositivos tecnológicos \(Nearpod Team - Matching Pairs\)](#)

2-3.IC.4: Identify public and private digital spaces.	Nearpod Lesson
	Private and Personal Information (Common Sense Education)
	Spanish: Información personal y privada (Common Sense Education)
	That’s Private! (Common Sense Education)
	Spanish: ¡Eso es privado! (Common Sense Education)
	Private Information (Nearpod Team - Draw It)
	Online Safety (Nearpod Team - Drag & Drop)
Online Privacy (Nearpod Team - Drag & Drop)	

2-3.IC.5: Identify and discuss how computers are programmed to make decisions without direct human input in daily life.	Nearpod Lesson
	Computer Behavior (Nearpod Team)
	Human & Computer Performance (Nearpod Team - Drag & Drop)

Accessibility

2-3.IC.6: Identify and discuss factors that make a computing device or software application easier or more difficult to use.	Nearpod Lesson
	Operating Systems (Nearpod Team)

Career Paths

2-3.IC.7: Identify a diverse range of roles and skills in computer science.	Nearpod Lesson
	STEM by the Numbers (Learning for Justice)
	Virtual Career Fair: STEM Careers (Nearpd Team)
	Virtual Career Fair: Social Media (Nearpod Team)
	Coding (Flocabulary)
	What is Engineering? (Flocabulary)
	Drone Designer: David Lang (National Geographic Kids)
	“Software Engineer” Songs About Professions (Netflix Jr.)

Computational Thinking

Modeling and Simulation

2-3.CT.1: Create a model of an object or computational process in order to identify patterns and essential elements of the object or process.

Nearpod Lesson

[Life Cycle of a Frog \(Nearpod Team\)](#)

[Life Cycle of a Butterfly \(Nearpod Team\)](#)

Data Analysis and Visualization

2-3.CT.2: Identify and describe data collection tools from everyday life.

Nearpod Lesson

[Data in the Real World \(Nearpod Team\)](#)

[Data Collection Tools \(Nearpod Team - Time to Climb\)](#)

[Collecting Data \(Nearpod Team - Drag & Drop\)](#)

[Collecting Digital Data \(Nearpod Team - Drag & Drop\)](#)

[Data Collection \(Nearpod Team - Drag & Drop\)](#)

[The Thermometer \(The Fixies\)](#)

2-3.CT.3: Present the same data in multiple visual formats in order to tell a story about the data.

Nearpod Lesson

[Visualizing and Manipulating Data \(Nearpod Team\)](#)

[Designing Charts \(Nearpod Team\)](#)

[Digitally Representing Data \(Nearpod Team - Time to Climb\)](#)

[Data & Technology \(Nearpod Team - Drag & Drop\)](#)

[Creating Data Visualizations \(Nearpod Team - Drag & Drop\)](#)

[Using Data & Technology \(Nearpod Team - Drag & Drop\)](#)

[Visualizing Data \(Nearpod Team - Drag & Drop\)](#)

[Data Presentation \(Nearpod Team - Drag & Drop\)](#)

[Making Data Meaningful \(Nearpod Team - Drag & Drop\)](#)

	What is Data? (Flocabulary)
	Line Plots (Flocabulary)
	Bar Graphs (Flocabulary)
	Data (Nearpod Team - Draw It)
	Picture Graphs (Nearpod Team - Draw It)
	Picture Graphs (Mage Math)
	Types of Graphs (Nearpod Team - Matching Pairs)
	Spanish: Los tipos de gráficos (Nearpod Team - Matching Pairs)
	Portuguese: Estilos de gráficos (Nearpod Team - Matching Pairs)
	Line Plots for Kids (Kids Academy)
Line Plots (Mage Math)	

Abstraction and Decomposition

2-3.CT.4: Identify multiple ways that the same problem could be decomposed into smaller steps.	Nearpod Lesson
	Looking at Problems in New Ways (Nearpod Team)
	Solving Problems (Nearpod Team)

Algorithms and Programming

2-3.CT.6: Create two or more algorithms for the same task.	Nearpod Lesson
	Lesson 1: Algorithms (Nearpod Team)

2-3.CT.7: Name/label key pieces of information in a set of instructions, noting whether each name/label refers to a fixed or changing value.	Nearpod Lesson
	Lesson 7: Variable Valley (CodeMonkey)
	Lesson 8: Drop It! (CodeMonkey)
	Lesson 10: Change is All Around (CodeMonkey)
	A Case of "What-Ifs" (Crash Course Kids)
Searching Within a Dataset (Nearpod Team - Drag & Drop)	

2-3.CT.8: Identify steps within a task that should only be carried out under certain precise conditions.	Nearpod Lesson
	Lesson 1: Algorithms (Nearpod Team)
	Collaboration (Nearpod Team - Draw It)
2-3.CT.9: Identify and debug errors within an algorithm or program that includes sequencing or repetition.	Nearpod Lesson
	Lesson 1: Algorithms (Nearpod Team)
	Lesson 2: Debugging (Nearpod Team)
2-3.CT.10: Develop and document a plan that outlines specific steps taken to complete a project.	Nearpod Lesson
	Collaboration (Nearpod Team - Draw It)
	Technology & Collaboration (Nearpod Team - Drag & Drop)
	The Design Process (Nearpod Team - Draw It)
	An Iterative Design Process (Nearpod Team - Draw It)
	The Design Process K-2 (Nearpod Team - Drag & Drop)
	The Design Process 3-5 (Nearpod Team - Drag & Drop)
	Organizational Skills (Nearpod Team)
	Metacognition (Nearpod Team)

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Networks & System Design

Hardware and Software

2-3.NSD.1: Describe and demonstrate several ways a computer program can receive data and instructions (input) and can present results (output).

Nearpod Lesson

[Using Peripherals \(Nearpod Team\)](#)

[Input & Output Devices \(Nearpod Team - Drag & Drop\)](#)

[Technology Terminology \(Nearpod Team - Drag & Drop\)](#)

[Computing Knowledge \(Nearpod Team - Drag & Drop\)](#)

2-3.NSD.2: Explain the function of software in computing systems, using descriptive/ precise language.

Nearpod Lesson

[Computer Vocabulary \(Nearpod Team\)](#)

[Operating Systems \(Nearpod Team\)](#)

[Basic Hardware \(Nearpod Team - Time to Climb\)](#)

[Hardware Components \(Nearpod Team - Drag & Drop\)](#)

[What Are Computers? \(Socratica Kids\)](#)

[Computer Vocabulary \(Nearpod Team - Matching Pairs\)](#)

Spanish: [Vocabulario sobre computación \(Nearpod Team - Matching Pairs\)](#)

Portuguese: [Vocabulário sobre computadores \(Nearpod Team - Matching Pairs\)](#)

[Computer Terminology \(Nearpod Team - Time to Climb\)](#)

Spanish: [Terminología sobre computación \(Nearpod Team - Time to Climb\)](#)

Portuguese: [Terminologia de computadores \(Nearpod Team - Time to Climb\)](#)

2-3.NSD.3: Describe and attempt troubleshooting steps to solve a simple technology problem.

Nearpod Lesson

[Getting Help \(Nearpod Team\)](#)

[Troubleshooting & Technology \(Nearpod Team - Time to Climb\)](#)

[Troubleshooting \(Nearpod Team - Drag & Drop\)](#)

[Troubleshooting Technology Problems \(Nearpod Team - Drag & Drop\)](#)

Networks and the Internet

2-3.NSD.4: Recognize that information can be communicated using different representations that satisfy different rules.

Nearpod Lesson

[Connecting Online \(Nearpod Team - Draw It\)](#)

[Sharing Information \(Nearpod Team - Time to Climb\)](#)

[Sharing Information \(Nearpod Team - Drag & Drop\)](#)

[Connecting on the Internet \(Nearpod Team - Drag & Drop\)](#)

[Online Community \(Nearpod Team - Drag & Drop\)](#)

[Internet Vocabulary \(Nearpod Team - Matching Pairs\)](#)

Spanish: [Vocabulario sobre internet \(Nearpod Team - Matching Pairs\)](#)

Portuguese: [Vocabulario da internet \(Nearpod Team - Matching Pairs\)](#)

[Internet Terminology \(Nearpod Team - Time to Climb\)](#)

Spanish: [Terminología sobre internet \(Nearpod Team - Time to Climb\)](#)

Portuguese: [Terminologia da internet \(Nearpod Team - Time to Climb\)](#)

[How Do Cell Phones Work? \(Peekaboo Kidz\)](#)

[The Cell Phone \(The Fixies\)](#)

[SMS \(The Fixies\)](#)

[Staying in Touch \(PBS Kids Videos\)](#)

[Phone Fun \(PBS Kids Videos\)](#)

2-3.NSD.5: Describe and navigate to various locations where digital information can be stored.

Nearpod Lesson

[Data in the Real World \(Nearpod Team\)](#)

[File Management \(Nearpod Team\)](#)

[File Organization \(Nearpod Team - Drag & Drop\)](#)

[Computing Knowledge \(Nearpod Team - Drag & Drop\)](#)

[File Types \(Nearpod Team - Drag & Drop\)](#)

[File Formats \(Nearpod Team - Drag & Drop\)](#)

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Cybersecurity

Risks

2-3.CY.1: Compare reasons why an individual should keep information private or make information public.

Nearpod Lesson

[Private Information \(Nearpod Team - Draw It\)](#)

[Online Safety \(Nearpod Team - Drag & Drop\)](#)

[Online Privacy \(Nearpod Team - Drag & Drop\)](#)

[That's Private! \(Common Sense Education\)](#)

Spanish: [¡Eso es privado! \(Common Sense Education\)](#)

[Digital Trails \(Common Sense Media\)](#)

Spanish: [Huellas digitales \(Common Sense Media\)](#)

[Private and Personal Information \(Common Sense Education\)](#)

Spanish: [Información personal y privada \(Common Sense Education\)](#)

[Private and Personal Information Video \(Common Sense Education\)](#)

[Internet Safety \(Flocabulary\)](#)

[Internet Safety \(Nearpod Original\)](#)

[Template: Venn Diagram \(Nearpod Team - Draw It\)](#)

Safeguards

2-3.CY.2: Compare and contrast behaviors that do and do not keep information secure.

Nearpod Lesson

[Creating a Secure Password \(Nearpod Team - Time to Climb\)](#)

[Keeping My Account Safe \(Nearpod Team - Time to Climb\)](#)

[Keeping My Account Secure \(Nearpod Team - Drag & Drop\)](#)

[Creating a Strong Password K-2 \(Nearpod Team - Drag & Drop\)](#)

[Secure Passwords \(Nearpod Team - Drag & Drop\)](#)

[Creating a Strong Password 3-5 \(Nearpod Team - Drag & Drop\)](#)

	<p>Password Power-Up (Common Sense Education)</p> <p>Spanish: Contraseñas seguras (Common Sense Education)</p> <p>Template: Venn Diagram (Nearpod Team - Draw It)</p>
<h2>Response</h2>	
<p>2-3.CY.5: Identify unusual activity of applications and devices that should be reported to a responsible adult.</p>	<p>Nearpod Lesson</p>
	<p>Using Devices Safely (Nearpod Team - Drag & Drop)</p>
	<p>Digital Friendships (Common Sense Education)</p>
	<p>Spanish: Amistades digitales (Common Sense Education)</p>
	<p>Internet Safety (Flocabulary)</p>
<p>Internet Safety (Nearpod Original)</p>	

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Digital Literacy

Digital Use

2-3.DL.1: Locate and use the main keys on a keyboard to enter text independently.

Nearpod Lesson

[Healthy Keyboarding Habits \(Nearpod Team\)](#)

[Keyboarding \(Nearpod Team - Time to Climb\)](#)

[Keyboarding: Part 1 \(Nearpod Team - Drag & Drop\)](#)

[Keyboarding: Part 2 \(Nearpod Team - Drag & Drop\)](#)

[Keyboarding: Home Row Bundle \(Typesy\)](#)

[Keyboarding: Symbols Bundle \(Typesy\)](#)

[Keyboarding: Top Row Bundle \(Typesy\)](#)

[Keyboarding: Bottom Row Bundle \(Typesy\)](#)

[Keyboarding: Shift Keys Bundle \(Typesy\)](#)

[Keyboarding: Punctuation Bundle \(Typesy\)](#)

[Keyboarding: Numbers Bundle \(Typesy\)](#)

[The Keyboard \(The Fixies\)](#)

2-3.DL.2: Communicate and work with others using digital tools to share knowledge and convey ideas.

Nearpod Lesson

[Introduction to Google Suite \(Nearpod Team\)](#)

[Identifying Collaboration and Communication Tools \(Nearpod Team\)](#)

[Collaboration \(Nearpod Team - Draw It\)](#)

[Technology & Collaboration \(Nearpod Team - Drag & Drop\)](#)

[Digital Tools & Communication \(Nearpod Team - Drag & Drop\)](#)

[Connecting on the Internet \(Nearpod Team - Drag & Drop\)](#)

[Collaboration and Communication Tools \(Nearpod Team - Matching Pairs\)](#)

	<p>Spanish: Herramientas de colaboración y comunicación (Nearpod Team - Matching Pairs)</p> <p>Portuguese: Ferramentas de colaboração e comunicação (Nearpod Team - Matching Pairs)</p>
<p>2-3.DL.3: Conduct basic searches based on student-identified keywords.</p>	<p>Nearpod Lesson</p>
	<p>Basic Keywords (Nearpod Team)</p>
	<p>Database Searches (Nearpod Team)</p>
	<p>Keywords & Searching (Nearpod Team - Draw It)</p>
	<p>Choosing Keywords (Nearpod Team - Time to Climb)</p>
	<p>Searching with Keywords (Nearpod Team - Draw It)</p>
	<p>Using Keywords to Search (Nearpod Team - Drag & Drop)</p>
	<p>Basic Keyword Searches (Nearpod Team - Drag & Drop)</p>
	<p>Reflective Researching (Nearpod Team - Drag & Drop)</p>
	<p>Research & Resources (Nearpod Team - Drag & Drop)</p>
	<p>Searching With Keywords (Nearpod Team - Drag & Drop)</p>
	<p>Choosing Keywords (Nearpod Team - Drag & Drop)</p>
	<p>Copyright, Credit & Plagiarism (Nearpod Team - Drag & Drop)</p>
	<p>Crediting Sources (Nearpod Team - Drag & Drop)</p>
	<p>Database Search (Nearpod Team - Draw It)</p>
	<p>Spanish: Búsqueda en base de datos (Nearpod Team - Draw It)</p>
<p>Portuguese: Pesquisa de banco de dados (Nearpod Team - Draw It)</p>	

2-3.DL.4: Use a variety of digital tools and resources to create digital artifacts.

Nearpod Lesson

[Creating Presentations \(Nearpod Team\)](#)

[Creating Documents \(Nearpod Team\)](#)

[Spreadsheets Part 1 \(Nearpod Team\)](#)

[Spreadsheets Part 2 \(Nearpod Team\)](#)

[Designing Charts \(Nearpod Team\)](#)

[Designing Slides \(Nearpod Team\)](#)

[Word Document Layout \(Nearpod Team\)](#)

[Creating Presentations with Digital Tools \(Nearpod Team - Drag & Drop\)](#)

[Creating Documents with Digital Tools \(Nearpod Team - Drag & Drop\)](#)

[Editing Documents \(Nearpod Team - Drag & Drop\)](#)

[Creating a Presentation \(Nearpod Team - Drag & Drop\)](#)

[Creating a Document \(Nearpod Team - Drag & Drop\)](#)

Digital Citizenship

2-3.DL.6: Describe ways that information may be shared online.

Nearpod Lesson

[Sharing Information \(Nearpod Team - Time to Climb\)](#)

[Sharing Online \(Nearpod Team - Time to Climb\)](#)

[Sharing Information \(Nearpod Team - Drag & Drop\)](#)

[Sharing Online \(Nearpod Team - Drag & Drop\)](#)

[Social Interactions Online \(Nearpod Team - Drag & Drop\)](#)

[Sharing Information Online \(Nearpod Team - Drag & Drop\)](#)

[Leaving a Digital Mark \(Nearpod Team - Drag & Drop\)](#)

[Creating a Digital Footprint \(Nearpod Team - Drag & Drop\)](#)

[Online Sharing \(Nearpod Team - Drag & Drop\)](#)

2-3.DL.7: Understand what it means to be part of a digital community and describe ways to keep it a safe, respectful space.

[Online Messaging \(Nearpod Team - Drag & Drop\)](#)

Nearpod Lesson

[Evaluating Media Bundle \(Nearpod Team\)](#)

[Altered Reality \(Nearpod Team - Time to Climb\)](#)

[Creating a Digital Footprint \(Nearpod Team - Time to Climb\)](#)

[Technology Use \(Nearpod Team - Draw It\)](#)

[Being Responsible with Devices \(Nearpod Team - Draw It\)](#)

[Rules for Technology \(Nearpod Team - Draw It\)](#)

[Online Behaviors \(Nearpod Team - Draw It\)](#)

[The Drawbacks of Multitasking \(Nearpod Team - Time to Climb\)](#)

[Your Digital Footprint \(Nearpod Team - Time to Climb\)](#)

[Being an Upstander \(Nearpod Team - Time to Climb\)](#)

[Your Online Behavior \(Nearpod Team - Time to Climb\)](#)

[Giving Credit \(Nearpod Team - Draw It\)](#)

[Thinking About Technology Use \(Nearpod Team - Drag & Drop\)](#)

[Using Technology \(Nearpod Team - Drag & Drop\)](#)

[Digital Distractions \(Nearpod Team - Drag & Drop\)](#)

[Creating Device-Free Moments \(Nearpod Team - Drag & Drop\)](#)

[Being a Good Digital Citizen \(Nearpod Team - Drag & Drop\)](#)

[Being Safe & Responsible Online \(Nearpod Team - Drag & Drop\)](#)

[Your Digital Trail \(Nearpod Team - Drag & Drop\)](#)

[Being Kind Online \(Nearpod Team - Drag & Drop\)](#)

[Online Experiences \(Nearpod Team - Drag & Drop\)](#)

[Staying Safe Online \(Nearpod Team - Drag & Drop\)](#)

[Crediting Sources \(Nearpod Team - Drag & Drop\)](#)

[Sharing Online \(Nearpod Team - Drag & Drop\)](#)

[Leaving a Digital Trail \(Nearpod Team - Drag & Drop\)](#)

[Using Media Responsibly \(Nearpod Team - Drag & Drop\)](#)

[Balancing the Use of Media \(Nearpod Team - Drag & Drop\)](#)

[Balancing Media Use \(Nearpod Team - Drag & Drop\)](#)

[Super Digital Citizen \(Nearpod Team - Drag & Drop\)](#)

[Digital Altering \(Nearpod Team - Drag & Drop\)](#)

[Safety Online \(Nearpod Team - Drag & Drop\)](#)

[Online Community \(Nearpod Team - Drag & Drop\)](#)

[Multitasking & Technology \(Nearpod Team - Drag & Drop\)](#)

[Online Privacy \(Nearpod Team - Drag & Drop\)](#)

[Cyberbullying \(Nearpod Team - Drag & Drop\)](#)

[Being an Upstander \(Nearpod Team - Drag & Drop\)](#)

[You & Your Digital Billboard \(CyberWise\)](#)

[How to be an Upstander to Cyberbullying \(CyberWise\)](#)

[Being a Good Digital Citizen \(Nearpod Team - Time to Climb\)](#)

[Putting a Stop to Online Meanness \(Common Sense Media\)](#)

Spanish: [Alto a la crueldad en línea \(Common Sense Media\)](#)

[Let's Give Credit! \(Common Sense Media\)](#)

Spanish: [¡Hay que dar crédito! \(Common Sense Media\)](#)

[We the Digital Citizens \(Common Sense Media\)](#)

Spanish: [Somos ciudadanos digitales \(Common Sense Media\)](#)

[Digital Trails \(Common Sense Media\)](#)

Spanish: [Huellas digitales \(Common Sense Media\)](#)

[Who is in Your Online Community? \(Common Sense Media\)](#)

Spanish: [¿Quién está en tu comunidad en línea? \(Common Sense Media\)](#)

[Our Digital Citizenship Pledge \(Common Sense Education\)](#)

Spanish: [Nuestro compromiso como ciudadanos digitales \(Common Sense Education\)](#)

[Rings of Responsibility \(Common Sense Education\)](#)

Spanish: [Los anillos de la responsabilidad \(Common Sense Education\)](#)

[The Power of Words \(Common Sense Education\)](#)

Spanish: [El poder de las palabras \(Common Sense Education\)](#)

[Keeping Games Friendly and Fun \(Common Sense Education\)](#)

Spanish: [Jugar para divertirse y hacer amigos \(Common Sense Education\)](#)

[Cyberbullying \(Nearpod Team - Time to Climb\)](#)

Spanish: [El ciberacoso \(Nearpod Team - Time to Climb\)](#)

Portuguese: [Cyberbullying \(Nearpod Team - Time to Climb\)](#)

[Cyberbullying Frayer Model \(Nearpod Team - Draw It\)](#)

Spanish: [Modelo Frayer sobre ciberacoso \(Nearpod Team - Draw It\)](#)

Portuguese: [Cyberbullying: Diagrama de Frayer \(Nearpod Team - Draw It\)](#)

[Safe Online Behavior \(Nearpod Team - Time to Climb\)](#)

Spanish: [Comportamientos seguros en línea \(Nearpod Team - Time to Climb\)](#)

Portuguese: [Comportamento seguro online \(Nearpod Team - Time to Climb\)](#)

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4-6

Impacts of Computing

Society

4-6.IC.1: Describe computing technologies that have changed the world, and express how those technologies influence, and are influenced by cultural practices.

Nearpod Lesson

[The Power of Technology \(Nearpod Team\)](#)

[Our Technology Evolution \(Nearpod Team\)](#)

[Tik Tok \(Nearpod Team\)](#)

[Changing Technology \(Nearpod Team - Draw It\)](#)

[Computing Technologies: Society & Culture \(Nearpod Team - Draw It\)](#)

[Tradeoffs of Computing Technologies \(Nearpod Team - Draw It\)](#)

[Human & Computer Performance \(Nearpod Team - Drag & Drop\)](#)

[Advancements in Technology \(Nearpod Team - Drag & Drop\)](#)

[Influence & Technology \(Nearpod Team - Drag & Drop\)](#)

[Technology Access \(Nearpod Team - Drag & Drop\)](#)

[Technology in the Workplace \(Nearpod Team - Drag & Drop\)](#)

[The Impact of Technology \(Nearpod Team - Drag & Drop\)](#)

[The Influence of Technology \(Nearpod Team - Drag & Drop\)](#)

[Computing Technologies: The Tradeoffs \(Nearpod Team - Drag & Drop\)](#)

[How Your Smartphone Knows Where You Are \(KOED\)](#)

[What is the Internet? \(Nearpod ft. Flocabulary\)](#)

[Offline vs. Online Communication Venn Diagram \(Nearpod Team - Draw It\)](#)

Spanish: [Diagrama de Venn sobre la comunicación en línea \(Nearpod Team - Draw It\)](#)

	Portuguese: Comunicação online e offline: Diagrama de Venn (Nearpod Team - Draw It)
	History of the Computer (Nearpod Team - Time to Climb)
	Spanish: La historia de la computadora (Nearpod Team - Time to Climb)
	Portuguese: Historia do computador (Nearpod Team - Time to Climb)
	History of the Internet (Nearpod Team - Time to Climb)
	Smart Devices (Nearpod Team - Matching Pairs)
	Spanish: Dispositivos inteligentes (Nearpod Team - Matching Pairs)
	Portuguese: Dispositivos tecnológicos (Nearpod Team - Matching Pairs)
	Social Media Addiction (Nearpod Original)
	Getting Around (PBS Kids Videos)
	Phone Fun (PBS Kids Videos)
	It's the Internet! (PBS Kids Videos)
4-6.IC.2: Explain how laws impact the use of computing technologies and digital information.	Nearpod Lesson
	Creative Credit (Nearpod Team - Time to Climb)
	Copyright and Fair Use Animation Video (Common Sense Education)
	Media Regulation (Crash Course)
	Technology Rules in the Classroom (Nearpod Team - Drag & Drop)
	My Technology Rules (Nearpod Team - Drag & Drop)
	Copyright, Credit & Plagiarism (Nearpod Team - Drag & Drop)
	Crediting Sources 3-5 (Nearpod Team - Drag & Drop)
	Crediting Sources 6-8 (Nearpod Team - Drag & Drop)
	Fair Use (Nearpod Team - Drag & Drop)

Ethics	
4-6.IC.3: Explain current events that involve computing technologies.	Nearpod Lesson
	The Question of COVID-19 Vaccine Passports (Nearpod Team)
	eSports in Schools (Nearpod Team)
	Events Gone Virtual (Nearpod Team)
	Meet the Robots at Amazon (NOVA)
	Can You Teach Ethics to a Self-Driving Car? (NOVA)
4-6.IC.4: Explain who has access to data in different digital spaces.	Nearpod Lesson
	Private and Personal Information (Common Sense Education)
	Spanish: Información personal y privada (Common Sense Education)
	Cybersecurity 101 (NOVA)
4-6.IC.5: Explain how computer systems play a role in human decision-making.	Nearpod Lesson
	The Power of Technology (Nearpod Team)
	Technology's Impact (Nearpod Team)
Accessibility	
4-6.IC.6: Identify and explain ways to improve the accessibility and usability of a computing device or software application for the diverse needs and wants of users.	Nearpod Lesson
	Operating Systems (Nearpod Team)
	The Power of Technology (Nearpod Team)
Career Paths	
4-6.IC.7: Identify a diverse range of role models in computer science.	Nearpod Lesson
	Women in Computer Science (Nearpod Team)
	STEM by the Numbers (Learning for Justice)
	Virtual Career Fair: STEM Careers (Nearpd Team)



[Virtual Career Fair: Social Media \(Nearpod Team\)](#)

[Coding \(Flocabulary\)](#)

[What is Engineering? \(Nearpod ft. Flocabulary\)](#)

[What is Engineering? \(Flocabulary\)](#)

[Ada Lovelace \(SciShow\)](#)

[Drone Designer: David Lang \(National Geographic Kids\)](#)

["Software Engineer" Songs About Professions \(Netflix Jr.\)](#)

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Computational Thinking

Data Analysis and Visualization

4-6.CT.2: Collect digital data related to a real-life question or need.

Nearpod Lesson

[Spreadsheets Part 1 \(Nearpod Team\)](#)

[Spreadsheets Part 2 \(Nearpod Team\)](#)

[Data Collection Tools \(Nearpod Team - Time to Climb\)](#)

[Digital Tools: Collecting Data \(Nearpod Team - Draw It\)](#)

[Collecting Digital Data \(Nearpod Team - Drag & Drop\)](#)

[Data Collection \(Nearpod Team - Drag & Drop\)](#)

[Data Structures \(Nearpod Team - Drag & Drop\)](#)

[Collection & Organizing Data \(Nearpod Team - Drag & Drop\)](#)

[Read Bar Graphs \(Khan Academy\)](#)

[Creating a Bar Chart \(Khan Academy\)](#)

4-6.CT.3: Visualize a simple data set in order to highlight relationships and persuade an audience.

Nearpod Lesson

[Representing Data in Graphs \(Nearpod Team\)](#)

[Frequency Tables, Dot Plots & Stem-and-Leaf Plots \(Nearpod Team\)](#)

[Designing Charts \(Nearpod Team\)](#)

[Designing Slides \(Nearpod Team\)](#)

[Digitally Representing Data \(Nearpod Team - Time to Climb\)](#)

[Visualizing Data \(Nearpod Team - Drag & Drop\)](#)

[Data Presentation \(Nearpod Team - Drag & Drop\)](#)

[Making Data Meaningful \(Nearpod Team - Drag & Drop\)](#)

[Organizing & Presenting Data \(Nearpod Team - Drag & Drop\)](#)

[What is Data? \(Flocabulary\)](#)

	Line Plots (Flocabulary)
	Bar Graphs (Flocabulary)
	Types of Graphs (Nearpod Team - Matching Pairs)
	Spanish: Los tipos de gráficos (Nearpod Team - Matching Pairs)
	Portuguese: Estilos de gráficos (Nearpod Team - Matching Pairs)
	Read Bar Graphs (Khan Academy)
	Creating a Bar Chart (Khan Academy)
	Histograms (Khan Academy)
	Reading Pictographs (Khan Academy)
	Stem-and-Leaf Plots (Khan Academy)

Abstraction and Decomposition

<p>4-6.CT.4: Decompose a problem into smaller named tasks, some of which can themselves be decomposed into smaller steps.</p>	Nearpod Lesson
	Decision Making (Nearpod VR)
	Lesson 3: I Have a Plan! (CodeMonkey)
	Decomposing Problems (Nearpod Team)
	Looking at Problems in New Ways (Nearpod Team)
	Solving Problems (Nearpod Team)
	Defining a Problem (Crash Course Kids)
	Template: Sequencing Instructions (Nearpod Team - Draw It)
	Template: Sequence of Events (Nearpod Team - Draw It)

4-6.CT.5: Identify and name a task within a problem that gets performed multiple times while solving that problem, but with slightly different concrete details each time.

Nearpod Lesson

[Lesson 9: Walk the Distance To \(CodeMonkey\)](#)

[Lesson 15: Function Farm \(CodeMonkey\)](#)

Algorithms and Programming

4-6.CT.6: Compare two or more algorithms and discuss the advantages and disadvantages of each for a specific task.

Nearpod Lesson

[Coding: Algorithms \(Nearpod ft. Flocabulary\)](#)

[Coding: Algorithms \(Flocabulary\)](#)

4-6.CT.7: Identify pieces of information that might change as a program or process runs.

Nearpod Lesson

[Lesson 7: Variable Valley \(CodeMonkey\)](#)

[Lesson 8: Drop It! \(CodeMonkey\)](#)

[Lesson 10: Change is All Around \(CodeMonkey\)](#)

[A Case of "What-Ifs" \(Crash Course Kids\)](#)

4-6.CT.8: Develop algorithms or programs that use repetition and conditionals for creative expression or to solve a problem.

Nearpod Lesson

[Lesson 5: In the Loop \(CodeMonkey\)](#)

[Lesson 6: Loop On \(CodeMonkey\)](#)

[Lesson 12: For Loop to the Rescue \(CodeMonkey\)](#)

[Lesson 13: Iterate Mate \(CodeMonkey\)](#)

[Lesson 14: Crocodile Rock \(CodeMonkey\)](#)

[Coding: Algorithms \(Nearpod ft. Flocabulary\)](#)

[Coding: Algorithms \(Flocabulary\)](#)

[Coding: Conditionals \(Flocabulary\)](#)

[Coding: For Loops \(Nearpod ft. Flocabulary\)](#)

	Coding: For Loops (Flocabulary)
<p>4-6.CT.9: Explain each step of an algorithm or program that includes repetition and conditionals for the purposes of debugging.</p>	Nearpod Lesson
	Lesson 16: Fun-ctions! (CodeMonkey)
	Coding: Algorithms (Nearpod ft. Flocabulary)
	Coding: Algorithms (Flocabulary)
	Coding: Conditionals (Flocabulary)
	Computer Programming (Flocabulary)
<p>4-6.CT.10: Describe the steps taken and choices made to design and develop a solution using an iterative design process.</p>	Nearpod Lesson
	An Iterative Design Process (Nearpod Team - Draw It)
	The Design Process (Nearpod Team - Drag & Drop)
	What is Engineering? (Flocabulary)
	The Engineering Design Process: A Taco Party (KQED)
	The Engineering Process (Crash Course Kids)

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Networks & System Design

Hardware and Software

4-6.NSD.1: Propose improvements to the design of a computing technology based on an analysis of user interactions with that technology.

Nearpod Lesson

[Designing a User Interface \(Nearpod Team - Draw It\)](#)

[Computing Knowledge \(Nearpod Team - Drag & Drop\)](#)

[User Interface Design \(Nearpod Team - Drag & Drop\)](#)

4-6.NSD.2: Model how computer hardware and software work together as a system to accomplish tasks.

Nearpod Lesson

[Computer Vocabulary \(Nearpod Team\)](#)

[Operating Systems \(Nearpod Team\)](#)

[Computer Hardware & Software \(Nearpod Team - Draw It\)](#)

[Operating Systems \(Nearpod Team - Drag & Drop\)](#)

[Hardware vs. Software \(Nearpod Team - Drag & Drop\)](#)

[Hardware & Software \(GCFLearnFree\)](#)

[Computer Vocabulary \(Nearpod Team - Matching Pairs\)](#)

Spanish: [Vocabulario sobre computación \(Nearpod Team - Matching Pairs\)](#)

Portuguese: [Vocabulário sobre computadores \(Nearpod Team - Matching Pairs\)](#)

[Computer Terminology \(Nearpod Team - Time to Climb\)](#)

Spanish: [Terminología sobre computación \(Nearpod Team - Time to Climb\)](#)

Portuguese: [Terminologia de computadores \(Nearpod Team - Time to Climb\)](#)

4-6.NSD.3: Determine potential solutions to solve hardware and software problems using common troubleshooting strategies.

Nearpod Lesson

[Getting Help \(Nearpod Team\)](#)

[Troubleshooting Problems \(Nearpod Team\)](#)

[Troubleshooting & Technology \(Nearpod Team - Time to Climb\)](#)

[Troubleshooting Technology Problems \(Nearpod Team - Drag & Drop\)](#)

[Basic Troubleshooting \(Nearpod Team - Drag & Drop\)](#)

Networks and the Internet

4-6.NSD.4: Model how data is structured to transmit through a network.

Nearpod Lesson

[How Computers Talk \(Nearpod Team\)](#)

[What is the Internet? \(Nearpod ft. Flocabulary\)](#)

[What is the Internet? \(Flocabulary\)](#)

[Internet Terminology \(Nearpod Team - Drag & Drop\)](#)

[Computer Network \(Nearpod Team - Drag & Drop\)](#)

[Network Frayer Model \(Nearpod Team - Draw It\)](#)

Spanish: [Modelo Frayer sobre la red \(Nearpod Team - Draw It\)](#)

Portuguese: [Rede: Diagrama de Frayer \(Nearpod Team - Draw It\)](#)

[Internet Vocabulary \(Nearpod Team - Matching Pairs\)](#)

Spanish: [Vocabulario sobre internet \(Nearpod Team - Matching Pairs\)](#)

Portuguese: [Vocabulario da internet \(Nearpod Team - Matching Pairs\)](#)

[Internet Terminology \(Nearpod Team - Time to Climb\)](#)

Spanish: [Terminología sobre internet \(Nearpod Team - Time to Climb\)](#)

Portuguese: [Terminologia da internet \(Nearpod Team - Time to Climb\)](#)

[How Does the Internet Work? \(Peekaboo Kidz\)](#)

[Internet 101 \(National Geographic\)](#)

4-6.NSD.5: Describe that data can be stored locally or remotely in a network.

Nearpod Lesson

[Data in the Real World \(Nearpod Team\)](#)

[File Management \(Nearpod Team\)](#)

[File Types \(Nearpod Team - Drag & Drop\)](#)

[File Formats \(Nearpod Team - Drag & Drop\)](#)

[File Management \(Nearpod Team - Drag & Drop\)](#)

[File Types: Part 1 \(Nearpod Team - Drag & Drop\)](#)

[File Types: Part 2 \(Nearpod Team - Drag & Drop\)](#)

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Risks	
4-6.CY.1: Explain why different types of information might need to be protected.	Nearpod Lesson
	Threats in Technology (Nearpod Team)
	Sharing Online (Nearpod Team - Time to Climb)
	Privacy & Social Media (Nearpod Team - Drag & Drop)
	Privacy: What Are You Sharing? (Nearpod Team - Drag & Drop)
	Be Aware of Phishing (Nearpod Team - Drag & Drop)
	Online Chatting (Nearpod Team - Drag & Drop)
	Sharing Online (Nearpod Team - Drag & Drop)
	Private and Personal Information (Common Sense Education)
	Spanish: Información personal y privada (Common Sense Education)
	Don't Feed the Phish (Common Sense Education)
	Spanish: No te fies del phishing (Common Sense Education)
	Oversharing (Flocabulary)
	Internet Safety (Flocabulary)
	Internet Safety (Nearpod Original)
The Secret Lives of Hackers (NOVA)	
Is My Identity Safe From Hackers? (Two Cents)	
Safeguards	

4-6.CY.2: Describe common safeguards for protecting personal information.

Nearpod Lesson

[Creating a Secure Password \(Nearpod Team - Time to Climb\)](#)

[Secure Passwords \(Nearpod Team - Drag & Drop\)](#)

[Creating a Strong Password \(Nearpod Team - Drag & Drop\)](#)

[Protection & Security Technologies \(Nearpod Team - Drag & Drop\)](#)

[Creating an Account: Username & Password \(Nearpod Team - Drag & Drop\)](#)

[Private and Personal Information \(Common Sense Education\)](#)

Spanish: [Información personal y privada \(Common Sense Education\)](#)

[Don't Feed the Phish \(Common Sense Education\)](#)

Spanish: [No te fíes del phishing \(Common Sense Education\)](#)

[Chatting Safely Online \(Common Sense Education\)](#)

Spanish: [Cómo chatear en línea de manera segura \(Common Sense Education\)](#)

[Getting Help \(Nearpod Team\)](#)

[Internet Safety \(Flocabulary\)](#)

[Internet Safety \(Nearpod Original\)](#)

4-6.CY.3: Describe trade-offs between allowing information to be public and keeping information private and secure.

Nearpod Lesson

[Creating a Digital Footprint \(Nearpod Team - Time to Climb\)](#)

[Our Online Tracks \(Common Sense Education\)](#)

Spanish: [Nuestro rastro en internet \(Common Sense Education\)](#)

[You Won't Believe This! \(Common Sense Education\)](#)

Spanish: [¡No vas a poder creerlo! \(Common Sense Education\)](#)

[Teen Voices: Oversharing & Your Digital Footprint \(Common Sense Education\)](#)

[What's in Your Digital Footprint? \(Common Sense Education\)](#)

	Oversharing (Flocabulary)
Response	
4-6.CY.5: Explain suspicious activity of applications and devices.	Nearpod Lesson
	Using Devices Safely (Nearpod Team - Drag & Drop)
	Threats in Technology (Nearpod Team)
	Internet Safety (Flocabulary)
	Internet Safety (Nearpod Original)

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Digital Use	
4-6.DL.1: Type on a keyboard while demonstrating proper keyboarding technique.	Nearpod Lesson
	Keyboard Posture (Nearpod Team)
	Keyboarding: Part 1 (Nearpod Team - Drag & Drop)
	Keyboarding: Part 2 (Nearpod Team - Drag & Drop)
	Keyboarding: Home Row Bundle (Typesy)
	Keyboarding: Symbols Bundle (Typesy)
	Keyboarding: Top Row Bundle (Typesy)
	Keyboarding: Bottom Row Bundle (Typesy)
	Keyboarding: Shift Keys Bundle (Typesy)
	Keyboarding: Punctuation Bundle (Typesy)
	Keyboarding: Numbers Bundle (Typesy)
The Keyboard (The Fixies)	
4-6.DL.2: Select appropriate digital tools to communicate and collaborate while learning with others.	Nearpod Lesson
	Texting, Email and Telephone Manners (Classroom Complete Press)
	Introduction to Google Suite (Nearpod Team)
	Identifying Collaboration and Communication Tools (Nearpod Team)
	Google Workspace (Nearpod Team - Drag & Drop)
	Collaboration and Communication Tools (Nearpod Team - Matching Pairs)
	Spanish: Herramientas de colaboración y comunicación (Nearpod Team - Matching Pairs)
	Portuguese: Ferramentas de colaboração e comunicação (Nearpod Team - Matching Pairs)
	Writing an Email (Nearpod Team - Draw It)

4-6.DL.3: Conduct and refine advanced multicriteria digital searches to locate content relevant to varied learning goals.

Nearpod Lesson

[Google Search \(Nearpod Team\)](#)

[Database Searches \(Nearpod Team\)](#)

[Keywords & Searching \(Nearpod Team - Draw It\)](#)

[Choosing Keywords \(Nearpod Team - Time to Climb\)](#)

[Reflective Researching \(Nearpod Team - Drag & Drop\)](#)

[Research & Resources \(Nearpod Team - Drag & Drop\)](#)

[Searching With Keywords \(Nearpod Team - Drag & Drop\)](#)

[Choosing Keywords \(Nearpod Team - Drag & Drop\)](#)

[Copyright, Credit & Plagiarism \(Nearpod Team - Drag & Drop\)](#)

[Crediting Sources 3-5 \(Nearpod Team - Drag & Drop\)](#)

[Fake News vs. Credible News \(Nearpod Team - Drag & Drop\)](#)

[Crediting Sources 6-8 \(Nearpod Team - Drag & Drop\)](#)

[Fair Use \(Nearpod Team - Drag & Drop\)](#)

[Database Search \(Nearpod Team - Draw It\)](#)

Spanish: [Búsqueda en base de datos \(Nearpod Team - Draw It\)](#)

Portuguese: [Pesquisa de banco de dados \(Nearpod Team - Draw It\)](#)

4-6.DL.4: Use a variety of digital tools and resources to create and revise digital artifacts.

Nearpod Lesson

[Creating Products with Software Applications \(Nearpod Team - Time to Climb\)](#)

[Spreadsheets Part 1 \(Nearpod Team\)](#)

[Spreadsheets Part 2 \(Nearpod Team\)](#)

[Designing Charts \(Nearpod Team\)](#)

[Designing Slides \(Nearpod Team\)](#)

[Word Document Layout \(Nearpod Team\)](#)

	Introduction to Google Suite (Nearpod Team)
	Creating a Presentation (Nearpod Team - Drag & Drop)
	Creating a Document (Nearpod Team - Drag & Drop)
	Creating Presentations (Nearpod Team - Drag & Drop)
	Software Application & Productivity (Nearpod Team - Drag & Drop)

Digital Citizenship

<p>4-6.DL.6: Describe persistence of digital information and explain how actions in online spaces can have consequences.</p>	Nearpod Lesson
	Creating a Digital Footprint (Nearpod Team - Time to Climb)
	Leaving a Digital Mark (Nearpod Team - Drag & Drop)
	Creating a Digital Footprint (Nearpod Team - Drag & Drop)
	Online Sharing (Nearpod Team - Drag & Drop)
	Online Messaging (Nearpod Team - Drag & Drop)
	Shaping Your Digital Footprint (Nearpod Team - Drag & Drop)
	Your Digital Footprint (Nearpod Team - Drag & Drop)
	Our Online Tracks (Common Sense Education)
	Spanish: Nuestro rastro en internet (Common Sense Education)
	Teen Voices: Oversharing & Your Digital Footprint (Common Sense Education)
	What's in Your Digital Footprint? (Common Sense Education)

<p>4-6.DL.7: Identify and describe actions in online spaces that could</p>	Nearpod Lesson
	Altered Reality (Nearpod Team - Time to Climb)

potentially be unsafe or harmful.

[The Drawbacks of Multitasking \(Nearpod Team - Time to Climb\)](#)

[Being an Upstander \(Nearpod Team - Time to Climb\)](#)

[Your Online Behavior \(Nearpod Team - Time to Climb\)](#)

[Balancing Media Use \(Nearpod Team - Drag & Drop\)](#)

[Super Digital Citizen \(Nearpod Team - Drag & Drop\)](#)

[Digital Altering \(Nearpod Team - Drag & Drop\)](#)

[Safety Online \(Nearpod Team - Drag & Drop\)](#)

[Online Community \(Nearpod Team - Drag & Drop\)](#)

[Multitasking & Technology \(Nearpod Team - Drag & Drop\)](#)

[Social Interactions Online \(Nearpod Team - Drag & Drop\)](#)

[Sharing Information Online \(Nearpod Team - Drag & Drop\)](#)

[Online Privacy \(Nearpod Team - Drag & Drop\)](#)

[Cyberbullying \(Nearpod Team - Drag & Drop\)](#)

[Being an Upstander \(Nearpod Team - Drag & Drop\)](#)

[Device Free \(Nearpod Team - Drag & Drop\)](#)

[Online Responsibilities \(Nearpod Team - Drag & Drop\)](#)

[Avoiding Distractions \(Nearpod Team - Drag & Drop\)](#)

[Cellphones & Distractions \(Nearpod Team - Drag & Drop\)](#)

[Developing Good Media Habits \(Nearpod Team - Drag & Drop\)](#)

[Act Against Cyberbullying \(Nearpod Team - Drag & Drop\)](#)

[Be an Upstander \(Nearpod Team - Drag & Drop\)](#)

[Making Good Media Choices \(Nearpod Team - Drag & Drop\)](#)

[Civil Discourse \(Nearpod Team - Drag & Drop\)](#)

[Using Social Media in a Balanced Way \(Nearpod Team - Drag & Drop\)](#)

[Using Social Media \(Nearpod Team - Drag & Drop\)](#)

[Balancing Our Digital World \(Nearpod Team - Drag & Drop\)](#)

[Media Balance \(Nearpod Team - Drag & Drop\)](#)

[Digital Drama \(Nearpod Team - Drag & Drop\)](#)

[Companies & Data Collection \(Nearpod Team - Drag & Drop\)](#)

[Rings of Responsibility \(Common Sense Education\)](#)

Spanish: [Los anillos de la responsabilidad \(Common Sense Education\)](#)

[The Power of Words \(Common Sense Education\)](#)

Spanish: [El poder de las palabras \(Common Sense Education\)](#)

[Private and Personal Information \(Common Sense Education\)](#)

Spanish: [Información personal y privada \(Common Sense Education\)](#)

[Our Online Tracks \(Common Sense Education\)](#)

Spanish: [Nuestro rastro en internet \(Common Sense Education\)](#)

[Keeping Games Friendly and Fun \(Common Sense Education\)](#)

Spanish: [Jugar para divertirse y hacer amigos \(Common Sense Education\)](#)

[Super Digital Citizen \(Common Sense Education\)](#)

Spanish: [Superciudadano digital \(Common Sense Education\)](#)

[Beyond Gender Stereotypes \(Common Sense Education\)](#)

Spanish: [Más allá de los estereotipos de género \(Common Sense Education\)](#)

[Digital Friendships \(Common Sense Education\)](#)

Spanish: [Amistades digitales \(Common Sense Education\)](#)

[What's Cyberbullying? \(Common Sense Education\)](#)

Spanish: [¿Qué es el ciberbullying? \(Common Sense Education\)](#)

[Don't Feed the Phish \(Common Sense Education\)](#)

Spanish: [No te fies del phishing \(Common Sense Education\)](#)

[Chatting Safely Online \(Common Sense Education\)](#)

Spanish: [Cómo chatear en línea de manera segura \(Common Sense Education\)](#)

[Digital Drama Unplugged \(Common Sense Education\)](#)

Spanish: [Desenchufando el drama digita \(Common Sense Education\)](#)

[How to be an Upstander to Cyberbullying \(CyberWise\)](#)

[Internet Safety \(Flocabulary\)](#)

[Internet Safety \(Nearpod Original\)](#)

[Social Media Frayer Model \(Nearpod Team - Draw It\)](#)

Spanish: [Modelo Frayer sobre redes sociales \(Nearpod Team - Draw It\)](#)

Portuguese: [Mídias sociais: diagrama de Frayer \(Nearpod Team - Draw It\)](#)

[Safe Online Behavior \(Nearpod Team - Time to Climb\)](#)

Spanish: [Comportamientos seguros en línea \(Nearpod Team - Time to Climb\)](#)

Portuguese: [Comportamento seguro online \(Nearpod Team - Time to Climb\)](#)

[Cyberbullying \(Nearpod Team - Time to Climb\)](#)

Spanish: [El ciberacoso \(Nearpod Team - Time to Climb\)](#)

Portuguese: [Cyberbullying \(Nearpod Team - Time to Climb\)](#)

[Cyberbullying Frayer Model \(Nearpod Team - Draw It\)](#)

Spanish: [Modelo Frayer sobre ciberacoso \(Nearpod Team - Draw It\)](#)

Portuguese: [Cyberbullying: Diagrama de Frayer \(Nearpod Team - Draw It\)](#)

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7-8

Impacts of Computing

Society

7-8.IC.1: Compare and contrast tradeoffs associated with computing technologies that affect individuals and society.

Nearpod Lesson

[Technology's Impact \(Nearpod Team\)](#)

[Our Technology Evolution \(Nearpod Team\)](#)

[Everyday Robots \(Nearpod Team\)](#)

[Cryptocurrencies \(Nearpod Team\)](#)

[Tik Tok \(Nearpod Team\)](#)

[Snapchat \(Nearpod Team\)](#)

[Facebook \(Nearpod Team\)](#)

[Youtube \(Nearpod Team\)](#)

[Instagram \(Nearpod Team\)](#)

[Twitter \(Nearpod Team\)](#)

[Computing Technologies: Society & Culture \(Nearpod Team - Draw It\)](#)

[Tradeoffs of Computing Technologies \(Nearpod Team - Draw It\)](#)

[Technology in the Workplace \(Nearpod Team - Drag & Drop\)](#)

[The Impact of Technology \(Nearpod Team - Drag & Drop\)](#)

[The Influence of Technology \(Nearpod Team - Drag & Drop\)](#)

[Computing Technologies: The Tradeoffs \(Nearpod Team - Drag & Drop\)](#)

[Robots, Jobs & You \(GCFLearnFree\)](#)

[What are Chatbots? \(GCFLearnFree\)](#)

[History of the Internet \(Nearpod Team - Time to Climb\)](#)

	Social Media Addiction (Nearpod Original)
7-8.IC.2: Evaluate the impact of laws or regulations on the development and use of computing technologies and digital information.	Nearpod Lesson
	Copyright and Fair Use Animation Video (Common Sense Education)
	Citing Sources (Nearpod Team - Time to Climb)
	Crediting Sources (Nearpod Team - Drag & Drop)
	Fair Use (Nearpod Team - Drag & Drop)
	What is Copyright? (CyberWise)
	Copyright: Help! I Need Something (CyberWise)
	Limitations of Copyright (CyberWise)
	What's Up With Copyright, Anyway? (CyberWise)
	Media Regulation (Crash Course)
Ethics	
7-8.IC.3: Identify and discuss issues of ethics surrounding computing technologies and current events.	Nearpod Lesson
	The Question of COVID-19 Vaccine Passports (Nearpod Team)
	eSports in Schools (Nearpod Team)
	Events Gone Virtual (Nearpod Team)
	Meet the Robots at Amazon (NOVA)
Can You Teach Ethics to a Self-Driving Car? (NOVA)	
7-8.IC.4: Identify and discuss issues related to the collection and use of public and private data.	Nearpod Lesson
	Data Protection (World101)
	Big, Big Data (Common Sense Education) Spanish: Los datos clave (Common Sense Education)

7-8.IC.5: Analyze potential sources of bias that could be introduced to complex computer systems and the potential impact of these biases on individuals.	Nearpod Lesson
	Fighting Cognitive Biases (Nearpod Team)
	Sourcing Your Information (Nearpod Team)
	Evaluating Evidence (Nearpod Team)
	Diversifying Your Media Diet (Nearpod Team)
	Fake News (Flocabulary)
	Primary & Secondary Sources (Flocabulary)

Accessibility

7-8.IC.6: Assess the accessibility of a computing device or software application in terms of user needs.	Nearpod Lesson
	Operating Systems (Nearpod Team)

Career Paths

7-8.IC.7: Explore a range of computer science-related career paths.	Nearpod Lesson
	Women in Computer Science (Nearpod Team)
	Automation and Jobs (Nearpod Team)
	Exploring STEM Careers (Nearpod Team)
	Coding (Nearpod ft. Flocabulary)
	Coding (Flocabulary)
	What is Engineering? (Nearpod ft. Flocabulary)
	What is Engineering? (Flocabulary)
	Ada Lovelace (SciShow)
	Career Spotlight: Software Engineer (KQED)
	Career Spotlight: Robotics Engineer (KQED)

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Computational Thinking

Modeling and Simulation

7-8.CT.1: Compare the results of alternative models or simulations to determine and evaluate how the input data and assumptions change the results.

Nearpod Lesson

[AI Explained: What is a Neural Net? \(NOVA\)](#)

Data Analysis and Visualization

7-8.CT.2: Collect and use digital data in a computational artifact.

Nearpod Lesson

[Spreadsheets Part 1 \(Nearpod Team\)](#)

[Spreadsheets Part 2 \(Nearpod Team\)](#)

[Designing Charts \(Nearpod Team\)](#)

[Designing Slides \(Nearpod Team\)](#)

[Digital Tools: Collecting Data \(Nearpod Team - Draw It\)](#)

[Data Structures \(Nearpod Team - Drag & Drop\)](#)

[Collection & Organizing Data \(Nearpod Team - Drag & Drop\)](#)

[Read Bar Graphs \(Khan Academy\)](#)

[Histograms \(Khan Academy\)](#)

[Creating a Bar Chart \(Khan Academy\)](#)

7-8.CT.3: Refine and visualize a data set in order to persuade an audience.

Nearpod Lesson

[Spreadsheets Part 1 \(Nearpod Team\)](#)

[Spreadsheets Part 2 \(Nearpod Team\)](#)

[Designing Charts \(Nearpod Team\)](#)

[Designing Slides \(Nearpod Team\)](#)

	Explaining with Data (Nearpod Team)
	Using Data to Solve Problems (Nearpod Team)
	Organizing & Presenting Data (Nearpod Team - Drag & Drop)
	Box & Whisker Plots (Flocabulary)
	Histograms (Khan Academy)
	Creating a Bar Chart (Khan Academy)
	Reading Pictographs (Khan Academy)
	Stem-and-Leaf Plots (Khan Academy)

Abstraction and Decomposition

<p>7-8.CT.4: Write a program using functions or procedures whose names or other documentation convey their purpose within the larger task.</p>	Nearpod Lesson
	Lesson 9: Walk the DistanceTo (CodeMonkey)
	Lesson 15: Function Farm (CodeMonkey)

<p>7-8.CT.5: Identify multiple similar concrete computations in a program, then create a function to generalize over them using parameters to accommodate their differences.</p>	Nearpod Lesson
	Lesson 9: Walk the DistanceTo (CodeMonkey)
	Lesson 15: Function Farm (CodeMonkey)

Algorithms and Programming

<p>7-8.CT.6: Design, compare and refine algorithms for a specific task or within a program.</p>	Nearpod Lesson
	Simple Data Structures (Nearpod Team)
	Data Structures (Nearpod Team - Drag & Drop)
	Algorithms (GCFLearnFree)
	Coding: Algorithms (Nearpod ft. Flocabulary)
	Coding: Algorithms (Flocabulary)

7-8.CT.7: Design or remix a program that uses a variable to maintain the current value of a key piece of information.

Nearpod Lesson

- [Lesson 7: Variable Valley \(CodeMonkey\)](#)
- [Lesson 8: Drop It! \(CodeMonkey\)](#)
- [Simple Data Structures \(Nearpod Team\)](#)

7-8.CT.8: Develop or remix a program that effectively combines one or more control structures for creative expression or to solve a problem.

Nearpod Lesson

- [Lesson 5: In the Loop \(CodeMonkey\)](#)
- [Lesson 6: Loop On \(CodeMonkey\)](#)
- [Lesson 12: For Loop to the Rescue \(CodeMonkey\)](#)
- [Lesson 13: Iterate Mate \(CodeMonkey\)](#)
- [Lesson 14: Crocodile Rock \(CodeMonkey\)](#)
- [Sequence, Selection, Loop \(GCFLearnFree\)](#)
- [Coding: Algorithms \(Nearpod ft. Flocabulary\)](#)
- [Coding: Algorithms \(Flocabulary\)](#)
- [Coding: Conditionals \(Flocabulary\)](#)
- [Coding: For Loops \(Nearpod ft. Flocabulary\)](#)
- [Coding: For Loops \(Flocabulary\)](#)

7-8.CT.9: Read and interpret code to predict the outcome of various programs that involve conditionals and repetition for the purposes of debugging.

Nearpod Lesson

- [Lesson 16: Fun-ctions! \(CodeMonkey\)](#)
- [Coding: Algorithms \(Nearpod ft. Flocabulary\)](#)
- [Coding: Algorithms \(Flocabulary\)](#)
- [Coding: Conditionals \(Flocabulary\)](#)
- [Computer Programming \(Flocabulary\)](#)

7-8.CT.10: Document the iterative design process of developing a computational artifact that incorporates user feedback and preferences.

Nearpod Lesson

[PBL Design Challenge: Creating Safer Schools \(Nearpod Team\)](#)

[PBL Design Challenge: Reimagining Voting \(Nearpod Team\)](#)

[Career Exploration: PBL Activity \(Nearpod Team\)](#)

[College Exploration: PBL Activity \(Nearpod Team\)](#)

[PBL Design Challenge: Promoting School Organizations \(Nearpod Team\)](#)

[Growth Mindset Practices: PBL Activity \(Nearpod Team\)](#)

[Lifelong Learning Strategies: PBL Activity \(Nearpod Team\)](#)

[The Engineering Design Process: A Taco Party \(KQED\)](#)

[Design Thinking \(Mosa Mack Science\)](#)

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Networks & System Design

Hardware and Software

7-8.NSD.1: Design a user interface for a computing technology that considers usability, accessibility, and desirability.

Nearpod Lesson

[Designing a User Interface \(Nearpod Team - Draw It\)](#)

[Computer Programming \(Flocabulary\)](#)

[User Interface Design \(Nearpod Team - Drag & Drop\)](#)

[User Interface \(Nearpod Team - Drag & Drop\)](#)

7-8.NSD.2: Design a project that combines hardware and software components.

Nearpod Lesson

[Operating Systems \(Nearpod Team\)](#)

[3D Printing \(Nearpod Team\)](#)

[Image Editing \(Nearpod Team\)](#)

[Hardware & Software \(GCFLearnFree\)](#)

[Computer Hardware & Software \(Nearpod Team - Draw It\)](#)

[Operating Systems \(Nearpod Team - Drag & Drop\)](#)

[Hardware vs. Software \(Nearpod Team - Drag & Drop\)](#)

7-8.NSD.3: Identify and fix problems with computing devices and their components using a systematic troubleshooting method or guide.

Nearpod Lesson

[Troubleshooting Problems \(Nearpod Team\)](#)

[Looking at Problems in New Ways \(Nearpod Team\)](#)

[Decomposing Problems \(Nearpod Team\)](#)

[Solving Problems \(Nearpod Team\)](#)

[Basic Troubleshooting \(Nearpod Team - Drag & Drop\)](#)

Networks and the Internet	
7-8.NSD.4: Design a protocol for transmitting data through a multi-point network.	Nearpod Lesson
	The New New Thing: The Internet of Things (OZY Media)
	How Computers Talk (Nearpod Team)
	Internet Terminology (Nearpod Team - Drag & Drop)
	Computer Network (Nearpod Team - Drag & Drop)
	How Do Computers Work? (CyberWise)
	What is the Internet? (Nearpod ft. Flocabulary)
	What is the Internet? (Flocabulary)
	Internet 101 (National Geographic)
	Network Frayer Model (Nearpod Team - Draw It)
	Spanish: Modelo Frayer sobre la red (Nearpod Team - Draw It) Portuguese: Rede: Diagrama de Frayer (Nearpod Team - Draw It)
7-8.NSD.5: Summarize how remote data is stored and accessed in a network.	Nearpod Lesson
	How Computers Talk (Nearpod Team)
	Introduction to Google Suite (Nearpod Team)
	Data in the Real World (Nearpod Team)
	Data Sizes (Nearpod Team - Matching Pairs)
	File Management (Nearpod Team - Drag & Drop)
	File Types: Part 1 (Nearpod Team - Drag & Drop)
	File Types: Part 2 (Nearpod Team - Drag & Drop)

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Cybersecurity

Risks

7-8.CY.1: Determine the types of personal information and digital resources that an individual may have access to that needs to be protected.

Nearpod Lesson

[Protecting Private Information \(Nearpod Team - Time to Climb\)](#)

[Privacy & Social Media \(Nearpod Team - Drag & Drop\)](#)

[Privacy: What Are You Sharing? \(Nearpod Team - Drag & Drop\)](#)

[Be Aware of Phishing \(Nearpod Team - Drag & Drop\)](#)

[Online Chatting \(Nearpod Team - Drag & Drop\)](#)

[Sharing Online \(Nearpod Team - Drag & Drop\)](#)

[Being Aware of What You Share \(Common Sense Education\)](#)

Spanish: [Cuidado con lo que compartes \(Common Sense Education\)](#)

[Big, Big Data \(Common Sense Education\)](#)

Spanish: [Los datos clave \(Common Sense Education\)](#)

[Chatting Safely Online \(Common Sense Education\)](#)

Spanish: [Cómo chatear en línea de manera segura \(Common Sense Education\)](#)

[Oversharing \(Flocabulary\)](#)

[Internet Safety \(Flocabulary\)](#)

[Internet Safety \(Nearpod Original\)](#)

[Is My Identity Safe From Hackers? \(Two Cents\)](#)

[A Cyber Privacy Parable \(NOVA\)](#)

[The Secret Lives of Hackers \(NOVA\)](#)

Safeguards

7-8.CY.2: Describe physical, digital, and behavioral safeguards that can be employed in different situations.

Nearpod Lesson

[Computer Security \(Nearpod Team\)](#)

[Protecting Against Threats \(Nearpod Team\)](#)

[Account Security \(Nearpod Team - Time to Climb\)](#)

[Protection & Security Technologies \(Nearpod Team - Drag & Drop\)](#)

[Creating an Account: Username & Password \(Nearpod Team - Drag & Drop\)](#)

[Big, Big Data \(Common Sense Education\)](#)

Spanish: [Los datos clave \(Common Sense Education\)](#)

[Chatting Safely Online \(Common Sense Education\)](#)

Spanish: [Cómo chatear en línea de manera segura \(Common Sense Education\)](#)

[Being Aware of What You Share \(Common Sense Education\)](#)

Spanish: [Cuidado con lo que compartes \(Common Sense Education\)](#)

[Oversharing \(Flocabulary\)](#)

[Internet Safety \(Flocabulary\)](#)

[Internet Safety \(Nearpod Original\)](#)

[Protecting Against Threats \(Nearpod Team - Draw It\)](#)

7-8.CY.4: Describe the limitations of cryptographic methods.

Nearpod Lesson

[Computer Security \(Nearpod Team\)](#)

[Protecting Against Threats \(Nearpod Team\)](#)

[Cyber Codes \(NOVA\)](#)

[Protecting Against Threats \(Nearpod Team - Draw It\)](#)

Response	
7-8.CY.5: Describe actions to be taken before and after an application or device reports a security problem or performs unexpectedly.	Nearpod Lesson
	Computer Security (Nearpod Team)
	Protecting Against Threats (Nearpod Team)
	Protecting Against Threats (Nearpod Team - Draw It)

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Digital Literacy

Digital Use

7-8.DL.1: Type on a keyboard while demonstrating proper keyboarding technique, with increased speed and accuracy.

Nearpod Lesson

[Keyboarding Ergonomics \(Nearpod Team\)](#)

[Keyboarding: Part 1 \(Nearpod Team - Drag & Drop\)](#)

[Keyboarding: Part 2 \(Nearpod Team - Drag & Drop\)](#)

[Software Application & Productivity \(Nearpod Team - Drag & Drop\)](#)

[Keyboarding: Home Row Bundle \(Typesy\)](#)

[Keyboarding: Symbols Bundle \(Typesy\)](#)

[Keyboarding: Top Row Bundle \(Typesy\)](#)

[Keyboarding: Bottom Row Bundle \(Typesy\)](#)

[Keyboarding: Shift Keys Bundle \(Typesy\)](#)

[Keyboarding: Punctuation Bundle \(Typesy\)](#)

[Keyboarding: Numbers Bundle \(Typesy\)](#)

[Keyboard Shortcut Commands \(Nearpod Team\)](#)

[Keyboard Shortcut Scenarios \(Nearpod Team\)](#)

7-8.DL.2: Communicate and collaborate with others using a variety of digital tools to create and revise a collaborative product.

Nearpod Lesson

[Introduction to Google Suite \(Nearpod Team\)](#)

[Spreadsheets Part 1 \(Nearpod Team\)](#)

[Spreadsheets Part 2 \(Nearpod Team\)](#)

[Designing Charts \(Nearpod Team\)](#)

[Designing Slides \(Nearpod Team\)](#)

[Word Document Layout \(Nearpod Team\)](#)

[Podcasts \(Nearpod Team\)](#)

	Screencasting (Nearpod Team)
	Image Editing (Nearpod Team)
	Website Creation (Nearpod Team)
	Blog Writing (Nearpod Team)
	Communication and Collaboration Tools (Nearpod Team)
	Google Workspace (Nearpod Team - Drag & Drop)
7-8.DL.3: Compare types of search tools, choose a search tool for effectiveness and efficiency, and evaluate the quality of search tools based on returned results.	Nearpod Lesson
	Google Search (6-8) (Nearpod Team)
	Finding Trustworthy Resources (Nearpod Team)
	Click Bait & Fake News (Nearpod Team - Time to Climb)
	Google Search Tricks for Research (Common Sense Education)
	Trustworthy Resources (Nearpod Team - Draw It)
	Fake News vs. Credible News (Nearpod Team - Drag & Drop)
	Crediting Sources 6-8 (Nearpod Team - Drag & Drop)
	Fair Use (Nearpod Team - Drag & Drop)
7-8.DL.4: Select and use digital tools to create, revise, and publish digital artifacts.	Nearpod Lesson
	Introduction to Google Suite (Nearpod Team)
	Spreadsheets Part 1 (Nearpod Team)
	Spreadsheets Part 2 (Nearpod Team)
	Designing Charts (Nearpod Team)
	Designing Slides (Nearpod Team)
	Word Document Layout (Nearpod Team)
	Podcasts (Nearpod Team)
	Screencasting (Nearpod Team)

	Image Editing (Nearpod Team)
	Creating Products with Software Applications (Nearpod Team - Time to Climb)
	Creating Presentations (Nearpod Team - Drag & Drop)
	Google Workspace (Nearpod Team - Drag & Drop)
	Software Application & Productivity (Nearpod Team - Drag & Drop)

Digital Citizenship

<p>7-8.DL.6: Explain the connection between the persistence of data on the Internet, personal online identity, and personal privacy.</p>	Nearpod Lesson
	Having a Positive Digital Footprint (Nearpod Team - Time to Climb)
	Balancing the Use of Social Media (Nearpod Team - Time to Climb)
	Shaping Your Digital Footprint (Nearpod Team - Drag & Drop)
	Your Digital Footprint (Nearpod Team - Drag & Drop)
	The Power of Digital Footprints (Common Sense Education)
	Spanish: El poder del rastro digital (Common Sense Education)
	My Social Media Life (Common Sense Education)
	Spanish: Mi vida en las redes sociales (Common Sense Education)
	Being Aware of What You Share (Common Sense Education)
	Spanish: Cuidado con lo que compartes (Common Sense Education)
	Social Media and Digital Footprints (Common Sense Education)
	Spanish: Las redes sociales y el rastro digital (Common Sense Education)
	What's in Your Digital Footprint? (Common Sense Education)
	Teen Voices: Oversharing & Your Digital Footprint (Common Sense Education)
Teen Voices: Presenting Yourself Online (Common Sense Education)	

	FOMO: Our Relationship with Social Media (GCFLearnFree)
	When Is Your Brain Ready For Social Media? (KQED)
	Social Media Bundle (6-8) (Nearpod Team)
	Oversharing (Flocabulary)
	Internet Safety (Flocabulary)
	Internet Safety (Nearpod Original)
<p>7-8.DL.7: Describe safe, appropriate, positive, and responsible online behavior and identify strategies to combat negative online behavior.</p>	Nearpod Lesson
	Using Digital Media (Nearpod Team - Time to Climb)
	Cellphones: Avoiding Distractions (Nearpod Team - Draw It)
	Standing Up Against Cyberbullying (Nearpod Team - Time to Climb)
	Avoiding Distractions (Nearpod Team - Drag & Drop)
	Cellphones & Distractions (Nearpod Team - Drag & Drop)
	Developing Good Media Habits (Nearpod Team - Drag & Drop)
	Act Against Cyberbullying (Nearpod Team - Drag & Drop)
	Be an Upstander (Nearpod Team - Drag & Drop)
	Making Good Media Choices (Nearpod Team - Drag & Drop)
	Fair Use (Nearpod Team - Drag & Drop)
	Civil Discourse (Nearpod Team - Drag & Drop)
	Using Social Media in a Balanced Way (Nearpod Team - Drag & Drop)
	Using Social Media (Nearpod Team - Drag & Drop)
	Balancing Our Digital World (Nearpod Team - Drag & Drop)
	Media Balance (Nearpod Team - Drag & Drop)
	Digital Drama (Nearpod Team - Drag & Drop)
	Companies & Data Collection (Nearpod Team - Drag & Drop)

[The Four Factors of Fair Use \(Common Sense Education\)](#)

Spanish: [Los cuatro factores del uso legítimo \(Common Sense Education\)](#)

[Finding Balance in a Digital World \(Common Sense Education\)](#)

Spanish: [El equilibrio en el mundo digital \(Common Sense Education\)](#)

[Don't Feed the Phish \(Common Sense Education\)](#)

Spanish: [No te fies del phishing \(Common Sense Education\)](#)

[Chatting Safely Online \(Common Sense Education\)](#)

Spanish: [Cómo chatear en línea de manera segura \(Common Sense Education\)](#)

[Digital Drama Unplugged \(Common Sense Education\)](#)

Spanish: [Desenchufando el drama digita \(Common Sense Education\)](#)

[My Media Use: A Personal Challenge \(Common Sense Education\)](#)

Spanish: [Mi uso de los medios: un desafío personal \(Common Sense Education\)](#)

[Digital Media and Your Brain \(Common Sense Education\)](#)

Spanish: [Los medios digitales y tu mente \(Common Sense Education\)](#)

[Sexting and Relationships \(Common Sense Education\)](#)

Spanish: [El sexting y las relaciones \(Common Sense Education\)](#)

[Responding to Online Hate Speech \(Common Sense Education\)](#)

Spanish: [Cómo responder al discurso de odio \(Common Sense Education\)](#)

[Computer Security \(Nearpod Team\)](#)

[Who Are You Online? \(Common Sense Education\)](#)

[Social Media Bundle \(6-8\) \(Nearpod Team\)](#)

[Are You a Consumer or a Producer? \(CyberWise\)](#)

[YouTube Algorithms: How to Avoid the Rabbit Hole \(KQED\)](#)

[Oversharing \(Flocabulary\)](#)

[Internet Safety \(Flocabulary\)](#)

[Internet Safety \(Nearpod Original\)](#)

[Protecting Against Threats \(Nearpod Team - Draw It\)](#)

[Social Media Frayer Model \(Nearpod Team - Draw It\)](#)

Spanish: [Modelo Frayer sobre redes sociales \(Nearpod Team - Draw It\)](#)

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Portuguese: [Cyberbullying \(Nearpod Team - Time to Climb\)](#)

[Cyberbullying Frayer Model \(Nearpod Team - Draw It\)](#)

Spanish: [Modelo Frayer sobre ciberacoso \(Nearpod Team - Draw It\)](#)

Portuguese: [Cyberbullying: Diagrama de Frayer \(Nearpod Team - Draw It\)](#)

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9-12

Impacts of Computing

Society

9-12.IC.1: Evaluate the impact of computing technologies on equity, access, and influence in a global society.

Nearpod Lesson

[The Future of Computing Devices \(Nearpod Team - Drag & Drop\)](#)

[The Internet by the Numbers \(World 101\)](#)

[What is Development? \(World 101\)](#)

[The Internet and National Borders \(World 101\)](#)

[Technology's Impact \(Nearpod Team\)](#)

[Our Technology Evolution \(Nearpod Team\)](#)

[Evolution of Computers \(Nearpod Team\)](#)

[Politics and Technology \(Nearpod Team\)](#)

[Computers are Everywhere \(Nearpod Team\)](#)

9-12.IC.2: Debate laws and regulations that impact the development and use of computing technologies and digital information.

Nearpod Lesson

[Net Neutrality \(Nearpod Team\)](#)

[Politics and Technology \(Nearpod Team\)](#)

[Using & Sharing Intellectual Property \(Nearpod Team - Time to Climb\)](#)

[Digital Citation \(Nearpod Team - Time to Climb\)](#)

[Software Licensing \(Nearpod Team - Drag & Drop\)](#)

[Intellectual Property \(Nearpod Team - Drag & Drop\)](#)

[Copyright and Fair Use Animation Video \(Common Sense Education\)](#)

[What is Copyright? \(CyberWise\)](#)

[Copyright: Help! I Need Something \(CyberWise\)](#)

	Limitations of Copyright (CyberWise)
	What's Up With Copyright, Anyway? (CyberWise)
	Net Neutrality (Nearpod ft. Flocabulary)
	Net Neutrality (Flocabulary)
	Media Regulation (Crash Course)
	Digital Privacy Laws (Nearpod Team - Draw It)
Ethics	
9-12.IC.3: Debate issues of ethics related to real world computing technologies.	Nearpod Lesson
	Robot Ethics (Nearpod Team)
	Ethical Hacking (Nearpod Team)
	Artificial Intelligence (Nearpod Team)
	Sharing Information Online (Nearpod Team - Time to Climb)
	Everyday Computers (Nearpod Team - Drag & Drop)
	Online Tracking (Nearpod Team - Drag & Drop)
	Debating the Privacy Line (Common Sense Education)
	The Big Data Dilemma (Common Sense Education)
9-12.IC.4: Assess personal and societal trade-offs related to computing technologies and data privacy.	Nearpod Lesson
	Sharing Information Online (Nearpod Team - Time to Climb)
	Everyday Computers (Nearpod Team - Drag & Drop)
	Online Tracking (Nearpod Team - Drag & Drop)
	Risk Check for New Tech (Common Sense Education)
	Debating the Privacy Line (Common Sense Education)

9-12.IC.5: Describe ways that complex computer systems can be designed for inclusivity and to mitigate unintended consequences.	Nearpod Lesson
	Artificial Intelligence (Nearpod Team)
	Measurements of Machine Intelligence (Nearpod Team - Drag & Drop)
	Should Hate Speech Be Censored? (Common Sense Education)
	Challenging Confirmation Bias (Common Sense Education)

Accessibility

9-12.IC.6: Create accessible computational artifacts that meet standard compliance requirements or otherwise meet the needs of users with disabilities.	Nearpod Lesson
	Operating Systems (Nearpod Team)

Career Paths

9-12.IC.7: Investigate the use of computer science in multiple fields.	Nearpod Lesson
	Women in Computer Science (Nearpod Team)
	Automation and Jobs (Nearpod Team)
	Exploring STEM Careers (Nearpod Team)
	VR Career Tours Bundle (Nearpod Team)
	Technology in Future Careers (Nearpod Team - Draw It)
	Future Careers & Technology (Nearpod Team - Drag & Drop)
	Coding (Nearpod ft. Flocabulary)
	Coding (Flocabulary)
	Ada Lovelace (SciShow)
	Career Spotlight: Software Engineer (KQED)
Career Spotlight: Robotics Engineer (KQED)	

[Why Are There So Few Women in Computer Science? \(Origin of Everything\)](#)

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Computational Thinking

Modeling and Simulation

9-12.CT.1: Create a simple digital model that makes predictions of outcomes.

Nearpod Lesson

[AI Explained: What is a Neural Net? \(NOVA\)](#)

Data Analysis and Visualization

9-12.CT.2: Collect and evaluate data from multiple sources for use in a computational artifact.

Nearpod Lesson

[Analyzing & Interpreting \(Nearpod Team\)](#)

[Spreadsheets Part 1 \(Nearpod Team\)](#)

[Spreadsheets Part 2 \(Nearpod Team\)](#)

[Designing Charts \(Nearpod Team\)](#)

[Designing Slides \(Nearpod Team\)](#)

[Using Data Analysis \(Nearpod Team - Drag & Drop\)](#)

[Read Bar Graphs \(Khan Academy\)](#)

[Histograms \(Khan Academy\)](#)

[Creating a Bar Chart \(Khan Academy\)](#)

9-12.CT.3: Refine and visualize complex data sets showing how to tell different stories with the same data set.

Nearpod Lesson

[Introduction to Data Representation \(Nearpod Team\)](#)

[Biodiversity Trends \(Nearpod VR\)](#)

[Explaining with Data \(Nearpod Team\)](#)

[Using Data to Solve Problems \(Nearpod Team\)](#)

[Box & Whisker Plots \(Flocabulary\)](#)

[Representing Data: Vocabulary \(Nearpod Team - Matching Pairs\)](#)

[Representing Data: Examples \(Nearpod Team - Matching Pairs\)](#)

	Data Analysis Techniques (Nearpod Team - Drag & Drop) Histograms (Khan Academy)
Abstraction and Decomposition	
9-12.CT.4: Implement a program using a combination of student-defined and third-party functions to organize the computation.	<p style="text-align: center;">Nearpod Lesson</p> Decomposing Problems (Nearpod Team)
Algorithms and Programming	
9-12.CT.6: Demonstrate how at least two classic algorithms work and analyze the trade-offs related to two or more algorithms for completing the same task.	<p style="text-align: center;">Nearpod Lesson</p> Lesson 9: Functional Programming (Nearpod Team) Algorithms (GCFLearnFree) Coding: Algorithms (Nearpod ft. Flocabulary) Coding: Algorithms (Flocabulary)
9-12.CT.7: Design or remix a program that utilizes a data structure to maintain changes to related pieces of data.	<p style="text-align: center;">Nearpod Lesson</p> Using Data to Solve Problems (Nearpod Team) Simple Data Structures (Nearpod Team) Data Structures (Nearpod Team - Drag & Drop) Lesson 7: Introduction to Javascript (Nearpod Team) Lesson 8: Arrays (Nearpod Team)
9-12.CT.8: Develop a program that effectively uses control structures in order to create a computer program for practical intent, personal expression, or to address a societal issue.	<p style="text-align: center;">Nearpod Lesson</p> Lesson 13: Conditions, Controls, and Loops (Nearpod Team) PBL Design Challenge: Coding Education (Nearpod Team) Sequence, Selection, Loop (GCFLearnFree) Coding: Algorithms (Nearpod ft. Flocabulary)

	Coding: Algorithms (Flocabulary)
	Coding: Conditionals (Flocabulary)
	Coding: For Loops (Nearpod ft. Flocabulary)
	Coding: For Loops (Flocabulary)
9-12.CT.9: Systematically test and refine programs using a range of test cases, based on anticipating common errors and user behavior.	Nearpod Lesson
	Lesson 14: Debugging (Nearpod Team)
	Computer Programming (Flocabulary)
9-12.CT.10: Collaboratively design and develop a program or computational artifact for a specific audience and create documentation outlining implementation features to inform collaborators and users.	Nearpod Lesson
	PBL Design Challenge: Coding Education (Nearpod Team)
	Coding Bundle (Nearpod Team)
	Digital Tools & Feedback (Nearpod Team - Draw It)
	Gathering Feedback (Nearpod Team - Drag & Drop)

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Networks & System Design

Hardware and Software

9-12.NSD.1: Design a solution to a problem that utilizes embedded systems to automatically gather input from the environment.

Nearpod Lesson

[Everyday Robots \(Nearpod Team\)](#)

[Computer Hardware & Software \(Nearpod Team - Draw It\)](#)

[User Interface \(Nearpod Team - Drag & Drop\)](#)

9-12.NSD.2: Explain the levels of interaction existing between the application software, system software, and hardware of a computing system.

Nearpod Lesson

[Operating Systems \(Nearpod Team\)](#)

[Computer Hardware & Software \(Nearpod Team - Draw It\)](#)

[Input & Output \(Nearpod Team - Drag & Drop\)](#)

[Computer Components \(Nearpod Team - Drag & Drop\)](#)

[3D Printing \(Nearpod Team\)](#)

[Image Editing \(Nearpod Team\)](#)

[Hardware & Software \(GCFLearnFree\)](#)

9-12.NSD.3: Develop and communicate multi-step troubleshooting strategies others can use to identify and fix problems with computing devices and their components.

Nearpod Lesson

[Troubleshooting Problems \(Nearpod Team\)](#)

[Troubleshooting Strategies \(Nearpod Team - Time to Climb\)](#)

[Computer Upgrades \(Nearpod Team - Drag & Drop\)](#)

[Troubleshooting Devices \(Nearpod Team - Drag & Drop\)](#)

[Looking at Problems in New Ways \(Nearpod Team\)](#)

[Decomposing Problems \(Nearpod Team\)](#)

[Solving Problems \(Nearpod Team\)](#)

Networks and the Internet

9-12.NSD.4: Describe the components and design characteristics that allow data and information to be moved, stored and referenced over the Internet.

Nearpod Lesson

[The New New Thing: The Internet of Things \(OZY Media\)](#)

[How Computers Talk \(Nearpod Team\)](#)

[Operating Systems \(Nearpod Team\)](#)

[Networks \(Nearpod Team\)](#)

[Open-Source Software \(Nearpod Team\)](#)

[Understanding and Evaluating Computers \(Nearpod Team\)](#)

[How Do Computers Work? \(CyberWise\)](#)

[What is the Internet? \(Nearpod ft. Flocabulary\)](#)

[What is the Internet? \(Flocabulary\)](#)

[Internet 101 \(National Geographic\)](#)

[Network Functionality \(Nearpod Team - Drag & Drop\)](#)

[Software Licensing \(Nearpod Team - Drag & Drop\)](#)

[Computer Networks \(Nearpod Team - Drag & Drop\)](#)

[Top-Level Domains \(Nearpod Team - Drag & Drop\)](#)

[Network Frayer Model \(Nearpod Team - Draw It\)](#)

Spanish: [Modelo Frayer sobre la red \(Nearpod Team - Draw It\)](#)

Portuguese: [Rede: Diagrama de Frayer \(Nearpod Team - Draw It\)](#)

9-12.NSD.5: Describe how emerging technologies are impacting networks and how they are used.

Nearpod Lesson

[The New New Thing: The Internet of Things \(OZY Media\)](#)

[Networks \(Nearpod Team\)](#)

[Computing Technologies: Society & Culture \(Nearpod Team - Draw It\)](#)

[Tradeoffs of Computing Technologies \(Nearpod Team - Draw It\)](#)

[Network Functionality \(Nearpod Team - Drag & Drop\)](#)

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Cybersecurity

Risks

9-12.CY.1: Determine the types of personal and organizational information and digital resources that an individual may have access to that needs to be protected.

Nearpod Lesson

[Risk Check for New Tech \(Common Sense Education\)](#)

[Social Media & Privacy \(Nearpod Team - Time to Climb\)](#)

[Online Chats \(Nearpod Team - Drag & Drop\)](#)

[Sharing on Social Media \(Nearpod Team - Drag & Drop\)](#)

[Online Privacy \(Nearpod Team - Drag & Drop\)](#)

[Oversharing \(Flocabulary\)](#)

[Is My Identity Safe From Hackers? \(Two Cents\)](#)

[Is Facial Recognition Invading Your Privacy? \(KOED\)](#)

[A Cyber Privacy Parable \(NOVA\)](#)

[The Secret Lives of Hackers \(NOVA\)](#)

Safeguards

9-12.CY.2: Describe physical, digital, and behavioral safeguards that can be employed to protect the confidentiality, integrity, and accessibility of information.

Nearpod Lesson

[Cyberspace and Cybersecurity Bundle \(World 101\)](#)

[Computer Security \(Nearpod Team\)](#)

[Protecting Against Threats \(Nearpod Team\)](#)

[Data-Collection Technology \(Nearpod Team - Drag & Drop\)](#)

[User Information \(Nearpod Team - Drag & Drop\)](#)

[Creating a Secure Account \(Nearpod Team - Drag & Drop\)](#)

[A Cyber Privacy Parable \(NOVA\)](#)

9-12.CY.3: Explain specific trade-offs when selecting and implementing security recommendations.	Nearpod Lesson
	Measurements of Machine Intelligence (Nearpod Team - Drag & Drop)
	Secure Communications (Nearpod Team - Drag & Drop)
9-12.CY.4: Evaluate applications of cryptographic methods.	Nearpod Lesson
	Computer Security (Nearpod Team)
	Protecting Against Threats (Nearpod Team)
	Secure Communications (Nearpod Team - Drag & Drop)
	Cyber Codes (NOVA)
	Protecting Against Threats (Nearpod Team - Draw It)
Response	
9-12.CY.5: Recommend multiple actions to take prior and in response to various types of digital security breaches.	Nearpod Lesson
	Computer Security (Nearpod Team)
	Protecting Against Threats (Nearpod Team)
	5 Tips to Protect Your Privacy Online (KQED)
	Protecting Against Threats (Nearpod Team - Draw It)

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Digital Literacy

Digital Use

9-12.DL.1: Type proficiently on a keyboard.

Nearpod Lesson

[Keyboarding Ergonomics \(Nearpod Team\)](#)

[Software Application & Productivity \(Nearpod Team - Drag & Drop\)](#)

[Keyboarding: Home Row Bundle \(Typesy\)](#)

[Keyboarding: Symbols Bundle \(Typesy\)](#)

[Keyboarding: Top Row Bundle \(Typesy\)](#)

[Keyboarding: Bottom Row Bundle \(Typesy\)](#)

[Keyboarding: Shift Keys Bundle \(Typesy\)](#)

[Keyboarding: Punctuation Bundle \(Typesy\)](#)

[Keyboarding: Numbers Bundle \(Typesy\)](#)

[Keyboard Shortcut Commands \(Nearpod Team - Matching Pairs\)](#)

[Keyboard Shortcut Scenarios \(Nearpod Team - Matching Pairs\)](#)

9-12.DL.2: Communicate and work collaboratively with others using digital tools to support individual learning and contribute to the learning of others.

Nearpod Lesson

[Introduction to Google Suite \(Nearpod Team\)](#)

[Spreadsheets Part 1 \(Nearpod Team\)](#)

[Spreadsheets Part 2 \(Nearpod Team\)](#)

[Designing Charts \(Nearpod Team\)](#)

[Designing Slides \(Nearpod Team\)](#)

[Word Document Layout \(Nearpod Team\)](#)

[Podcasts \(Nearpod Team\)](#)

[Screencasting \(Nearpod Team\)](#)

	Image Editing (Nearpod Team)
	Website Creation (Nearpod Team)
	Blog Writing (Nearpod Team)
	Communication and Collaboration Tools (Nearpod Team)
	Digital Tools & Feedback (Nearpod Team - Draw It)
	Collaborative Tools (Nearpod Team - Drag & Drop)
<p>9-12.DL.4: Independently select advanced digital tools and resources to create, revise, and publish complex digital artifacts or collection of artifacts.</p>	Nearpod Lesson
	Introduction to Google Suite (Nearpod Team)
	Digital Tools & Feedback (Nearpod Team - Draw It)
	File Formats (Nearpod Team - Time to Climb)
	File Types (Nearpod Team - Drag & Drop)
	File Formats (Nearpod Team - Drag & Drop)
	Spreadsheets Part 1 (Nearpod Team)
	Spreadsheets Part 2 (Nearpod Team)
	Designing Charts (Nearpod Team)
	Designing Slides (Nearpod Team)
	Word Document Layout (Nearpod Team)
	Podcasts (Nearpod Team)
	Screencasting (Nearpod Team)
	Image Editing (Nearpod Team)
	Website Creation (Nearpod Team)
	Blog Writing (Nearpod Team)

Digital Citizenship

9-12.DL.6: Actively manage digital presence and footprint to reflect an understanding of the permanence and potential consequences of actions in online spaces.

Nearpod Lesson

[Your Digital Presence \(Nearpod Team - Time to Climb\)](#)

[Managing Your Digital Identity \(Nearpod Team - Time to Climb\)](#)

[Civil Discourse \(Nearpod Team - Time to Climb\)](#)

[User Information \(Nearpod Team - Drag & Drop\)](#)

[Posting on Social Media \(Nearpod Team - Drag & Drop\)](#)

[Creating a Positive Digital Footprint \(Nearpod Team - Drag & Drop\)](#)

[Digital Presence \(Nearpod Team - Drag & Drop\)](#)

[Who's Looking at Your Digital Footprint? \(Common Sense Education\)](#)

[The Change You Want to See \(Common Sense Education\)](#)

[Protecting Online Reputations \(Common Sense Education\)](#)

[Teen Voices: Oversharing & Your Digital Footprint \(Common Sense Education\)](#)

[Teen Voices: Who Are You on Social Media? \(Common Sense Education\)](#)

[Social Media Bundle \(9-12\) \(Nearpod Team\)](#)

[Oversharing \(Flocabulary\)](#)

9-12.DL.7: Design and implement strategies that support safety and security of digital information, personal identity, property, and physical and mental health when operating in the digital world.

Nearpod Lesson

[Social Media Addiction \(Nearpod Team\)](#)

[Social Media Bundle \(Nearpod Team\)](#)

[Social Media: Finding Balance \(Nearpod Team - Draw It\)](#)

[Be an Upstander \(Nearpod Team - Time to Climb\)](#)

[Civil Discourse \(Nearpod Team - Time to Climb\)](#)

[Chatting & Risky Online Communication \(Nearpod Team - Time to Climb\)](#)

[Climb](#)

[Screen Time \(Nearpod Team - Draw It\)](#)

[Healthy Habits: Screen Time \(Nearpod Team - Drag & Drop\)](#)

[Using Civil Discourse \(Nearpod Team - Drag & Drop\)](#)

[Online Behavior \(Nearpod Team - Drag & Drop\)](#)

[Healthy Media Balance \(Nearpod Team - Drag & Drop\)](#)

[Evaluating Credibility \(Nearpod Team - Drag & Drop\)](#)

[Online Chats \(Nearpod Team - Drag & Drop\)](#)

[Multitasking \(Nearpod Team - Drag & Drop\)](#)

[Using Devices Respectfully \(Nearpod Team - Drag & Drop\)](#)

[Standing Up \(Nearpod Team - Drag & Drop\)](#)

[Be an Ally \(Nearpod Team - Drag & Drop\)](#)

[Digital Wellbeing \(Nearpod Team - Drag & Drop\)](#)

[Balancing Social Media \(Nearpod Team - Drag & Drop\)](#)

[The Role of Digital Media \(Nearpod Team - Drag & Drop\)](#)

[My Digital Life is Like... \(Common Sense Education\)](#)

[The Big Data Dilemma \(Common Sense Education\)](#)

[Chatting and Red Flags \(Common Sense Education\)](#)

[What You Send in "That Moment When..." \(Common Sense Education\)](#)

[Hoaxes and Fakes \(Common Sense Education\)](#)

[Social Media and How You Feel \(Common Sense Education\)](#)

[Risk Check for New Tech \(Common Sense Education\)](#)

[Curated Lives \(Common Sense Education\)](#)

[Rewarding Relationships \(Common Sense Education\)](#)

[Countering Hate Speech Online \(Common Sense Education\)](#)

[Challenging Confirmation Bias \(Common Sense Education\)](#)

[Can Media Be Addictive? \(Common Sense Education\)](#)

[How Young is Too Young for Social Media? \(Common Sense Education\)](#)

[Connecting with Digital Audiences \(Common Sense Education\)](#)

[Online Disinhibition and Cyberbullying \(Common Sense Education\)](#)

[The Health Effects of Screen Time \(Common Sense Education\)](#)

[We are Civil Communicators \(Common Sense Education\)](#)

[Should Online Hate Speech Be Censored? \(Common Sense Education\)](#)

[Filter Bubble Trouble \(Common Sense Education\)](#)

[Being a Good Digital Citizen \(GCFLearnFree\)](#)

[FOMO: Our Relationship with Social Media \(GCFLearnFree\)](#)

[When is Your Brain Ready for Social Media? \(KOED\)](#)

[Can We Talk About Sexting? \(CyberWise\)](#)

[YouTube Algorithms: How to Avoid the Rabbit Hole \(KOED\)](#)

[Is the Internet Making You Meaner? \(KOED\)](#)

[How Do Social Media Platforms Affect Your Mood? \(KOED\)](#)

[Why People are Choosing to Quit Social Media \(BBC\)](#)

[Social Media Addiction \(Nearpod Original\)](#)

[Social Media Frayer Model \(Nearpod Team - Draw It\)](#)

Spanish: [Modelo Frayer sobre redes sociales \(Nearpod Team - Draw It\)](#)

Portuguese: [Mídias sociais: diagrama de Frayer \(Nearpod Team - Draw It\)](#)

[Cyberbullying \(Nearpod Team - Time to Climb\)](#)

Spanish: [El ciberacoso \(Nearpod Team - Time to Climb\)](#)

Portuguese: [Cyberbullying \(Nearpod Team - Time to Climb\)](#)

[Cyberbullying Frayer Model \(Nearpod Team - Draw It\)](#)

Spanish: [Modelo Frayer sobre ciberacoso \(Nearpod Team - Draw It\)](#)

Portuguese: [Cyberbullying: Diagrama de Frayer \(Nearpod Team - Draw It\)](#)

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