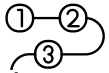
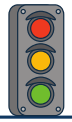
Computer Science
SCAVENGER HUNT K-2

CodeVA

Look For	Where Did You See It?	How does it use CS?	Drawing
INPUT Device (Something you push or touch to give a computer instructions) 			
OUTPUT Device (Something that shows you a result or information) 			
SEQUENCE of Steps  (Instructions that must be done in a specific order)			
LOOP or REPEAT (Something that happens over and over for a set number of times) 			
CODE using Colors or Symbols (Something that uses symbols/colors to give information) 			
SORTING Example (Things put in a specific order) 			

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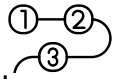
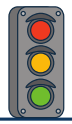
Look For	Where Did You See It?	How does it use CS?	Drawing
INPUT Device (Something you push or touch to give a computer instructions) 	Keyboard, Mouse, Buttons	You push the keys or click the button to tell the computer what to do	
OUTPUT Device (Something that shows you a result or information) 	Monitor, Screen, Printed Page, Speaker	The screen shows you the picture after you push the button; the speaker plays the sound.	
ALGORITHM (Instructions that must be done in a specific order) 	Following a recipe, washing your hands, morning routine	You must do the steps in order (turn on water, get soap, scrub, rinse) or it won't work right, just like a program.	
LOOP or REPEAT (Something that happens over and over for a set number of times) 	One possible answer- a clock with hands	he hand keeps moving around and around in the same pattern (loop) until the battery dies.	
CODE using Colors or Symbols (Something that uses symbols/colors to give information) 	Stop light, bathroom sign, color codes	Red means STOP, Yellow means WAIT, and Green means GO. The colors are a simple code.	
SORTING Example (Things put in a specific order) 	Toys in bins or books by types/genre	You put things in a specific order (algorithm) so you can find them later	

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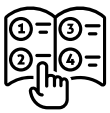
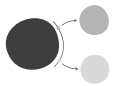
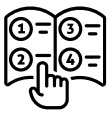
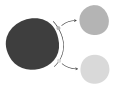
Look For	Where Did You See It?	How does it use CS?	Drawing
PROGRAM (A list of instructions you give a person or computer) 			
DECOMPOSITION Example (Taking a big job and breaking it into smaller pieces) 			
HARDWARE (A piece of a computer that can be touched) 			
DATA Visualization (Using a chart or table to share information) 			
DEBUGGING (Checking and fixing any mistakes you find) 			
COMMUNICATION Example (Using a computing device to share a message with others) 			

Computer Science
SCAVENGER HUNT K-2

CodeVA

Look For	Where Did You See It?	How does it use CS?	Drawing
PROGRAM (A list of instructions you give a person or computer) 	A schedule on. the wall or cleaning schedule	The schedule is a set of instructions (a program) telling us what to do and when to do it.	
DECOMPOSITION Example (Taking a big job and breaking it into smaller pieces) 	Making a project or cleaning a messy room	You break the big job (cleaning) into smaller jobs (put away toys, clean the floor, make the bed)	
HARDWARE (A piece of a computer that can be touched) 	Tablet, mouse, video game controller, printer, speaker	It is the physical part of a computer or machine that you can touch and hold.	
DATA Visualization (Using a chart or table to share information) 	Posted charts or tables, class birthdays, lunch count, weather	This shows data in a way that we can understand and predict patterns, much like software can	
DEBUGGING (Checking and fixing any mistakes you find) 	Problems in text, math, situational problems in the classroom	When a game or program doesn't work the way you want it to, you have to look for clues (the bugs) in the instructions to figure out what went wrong, and then correct them so the computer does what you want.	
COMMUNICATION Example (Using a computing device to share a message with others) 	Computer, email, phone, text, call, printed message	Computers are used. to communicate quickly and easily, especially across long distances	

Computer Science
SCAVENGER HUNT 3-5

CodeVA

Look For	Where Did You See It?	How does it use CS?	Drawing
ALGORITHM (A clear, step-by-step set of instructions to solve a problem)			
CONDITIONAL STATEMENT (A rule that follows "If [this is true], then [do this]")			
Example of BINARY (Something that only uses two states, like "On/Off" or "1/0")			
A Sign of DEBUGGING (A visible fix, correction, or patch on a sign, machine, or document)			
DATA STORAGE (Something that holds a lot of information for later, like a library shelf or a specific type of memory)			
PROTECTED INFORMATION Example (A way we make sure our personal information stays private)			

Computer Science
SCAVENGER HUNT 3-5

CodeVA

Look For	Where Did You See It?	How does it use CS?	Drawing
ALGORITHM (A clear, step-by-step set of instructions to solve a problem)	Daily routine, math problem steps, conflict resolution steps, scientific method, instructions for furnature assembly	The instructions are a precise set of steps (an algorithm) that must be followed exactly to build the final chair.	
CONDITIONAL STATEMENT (A rule that follows "If [this is true], then [do this]")	One possible example, a water fountain with a button	**IF**(you push the button) **THEN** (water comes out). **ELSE** (no water comes out)	
Example of BINARY (Something that only uses two states, like "On/Off" or "1/0")	One possible example, a light switch	It can only be in one of two states: **ON** (which is like 1) or **OFF** (which is like 0)	
A Sign of DEBUGGING (A visible fix, correction, or patch on a sign, machine, or document)	White out, a sticker with a correction, crossed-out words with replacement	Re-reading code is important to catch mistakes before you run the code and realize it doesn't work	
DATA STORAGE (Something that holds a lot of information for later, like a library shelf or a specific type of memory)	Flash drive, library shelf, filing cabinet	It holds information (data) in a small, organized place so that people can access or read it later.	
PROTECTED INFORMATION Example (A way we make sure our personal information stays private)	Password, notebook with lock, passcode on a device, using only last initials	Personal information should be secured at all times for yorur protection. Computing devices hold a lot of data and you need to keep it safe.	

Computer Science
SCAVENGER HUNT 3-5

CodeVA

Look For	Where Did You See It?	How does it use CS?	Drawing
IMPACTS of Devices (Find a positive or negative impact computing tech has had on society)			
COPYRIGHT STATEMENT (Acknowledgement to the author or creator of a work)			
NETWORK or SERVER Evidence (Something that indicates a larger network of connected devices)			
ALGORITHM with a LOOP (A process that repeats steps until a condition is met or a task is complete)			
VARIABLE (Something that holds a value that can be changed, increased, or updated)			
AUTOMATION Example (Find a way computers use data and pre-set decisions to automate a process)			

Computer Science
SCAVENGER HUNT 3-5

CodeVA

Look For	Where Did You See It?	How does it use CS?	Drawing
IMPACTS of Devices (Find a positive or negative impact computing tech has had on society)	Screen time limits, sharing information, spellcheck	Technolgical advances can have both positive and negative effects that students should start recognizing.	
COPYRIGHT STATEMENT (Acknowledgement to the author or creator of a work)	In a book, webpage, poster, etc.	Computer programs can often build on others' work, so acknowledging who has contributed is important to report.	
NETWORK or SERVER Evidence (Something that indicates a larger network of connected devices)	Ethernet cable, port, server room	Computers can connect through a network or server and share information. This is how we use them to communicate to each other.	
ALGORITHM with a LOOP (A process that repeats steps until a condition is met or a task is complete)	Lunch line repeats until all students are served, music repeats a specified number of times	Algorithms use loops and conditions to determine how	
VARIABLE (Something that holds a value that can be changed, increased, or updated)	Stop watch, tally marks, scoreboard, input/output machines	Variables are what make programs flexible. They allow an algorithm to work with different numbers or words every time it runs.	
AUTOMATION Example (Find a way computers use data and pre-set decisions to automate a process)	School bell, Air Conditioning Systems, Doors closing during fire alarm	Automation is when a computer or system does a job for you automatically, following a set of rules (an algorithm). It removes the need for a person to constantly press a button or check a clock.	

Computer Science
SCAVENGER HUNT 6-8

CodeVA

Look For	Where Did You See It?	How does it use CS?	Drawing
SIMULATION (A smaller, simplified version of a complex real-world object or event that replicates the event)			
Something Using NETWORK PROTOCOL (A device communicating wirelessly or with a cable to another device)			
A Form of AUTHENTICATION/ ENCRYPTION (A password, fingerprint scanner, or code needed for access)			
DATA STRUCTURE Example (Information organized in a specific way, like a calendar, index card system, or file directory)			
Example of PARALLEL PROCESSING (Two or more tasks being completed at the same time to save time)			
ABSTRACTION Example (A simplified tool or interface that hides complex inner workings)			

Computer Science
SCAVENGER HUNT 6-8

CodeVA

Look For	Where Did You See It?	How does it use CS?	Drawing
SIMULATION (A smaller, simplified version of a complex real-world object or event that replicates the event)	Modeling traffic flow, running calculations to predict outcomes, virus spread, predator/prey counts	A simulation mimics a real-world process to test or learn about it without the risks and costs of a real-world experiment, allowing us to replicate processes with code.	
Something Using NETWORK PROTOCOL (A device communicating wirelessly or with a cable to another device)	WiFI Router, Ethernet ports	It uses protocols (like TCP/IP) which are rules for how devices must format and send data packets to each other across the internet.	
A Form of AUTHENTICATION/ ENCRYPTION (A password, fingerprint scanner, or code needed for access)	Login for an online game, keycard access to rooms	The password scrambles your data (encryption) and proves who you are (authentication) to keep your account safe from unauthorized users.	
DATA STRUCTURE Example (Information organized in a specific way, like a calendar, index card system, or file directory)	Spreadsheet, Calendar, Gradebook	A calendar is a 2D array (grid) data structure that organizes information (events) by row (week) and column (day) for efficient lookup	
Example of PARALLEL PROCESSING (Two or more tasks being completed at the same time to save time)	Phone or computer running two programs	The phone's processor is handling two separate tasks simultaneously (downloading an app and audio playback) to save the user time.	
ABSTRACTION Example (A simplified tool or interface that hides complex inner workings)	One possible example, a car's gas pedal	You press the pedal (simple interface) and don't need to understand the complex internal combustion engine (hidden complexity) that makes the car go faster.	

Computer Science
SCAVENGER HUNT 6-8

CodeVA

Look For	Where Did You See It?	How does it use CS?	Drawing
CLOUD COMPUTING (A sign or item that relies on data stored remotely, not locally)			
Something Using AI/MACHINE LEARNING (A system that changes behavior based on past data/experience)			
An Example of BOOLEAN LOGIC (A password, fingerprint scanner, or code needed for access)			
EVENT DRIVEN PROGRAM (A system waiting for a specific action (like a click) to trigger a response))			
RESPONSIBLE COMPUTING (A rule or consequence related to using technology responsibly)			
DATA VISUALIZATION (A graphic used to show complex information and relationships in data)			

Computer Science
SCAVENGER HUNT 6-8

CodeVA

Look For	Where Did You See It?	How does it use CS?	Drawing
CLOUD COMPUTING (A sign or item that relies on data stored remotely, not locally)	Google Drive, Security Camera	The camera footage isn't saved on the camera itself, but on powerful remote servers (the cloud) accessed over the internet.	
Something Using AI/MACHINE LEARNING (A system that changes behavior based on past data/experience)	Spam Filter in email, social media algorithms, Stores predicting what you'll need on their app	The filter "learns" from the emails you mark as spam to recognize and block similar messages in the future (pattern recognition).	
An Example of BOOLEAN LOGIC (A password, fingerprint scanner, or code needed for access)	Two-Factor Authentication, Search Results with AND/OR/NOT	IF (Password is TRUE) AND (Code is TRUE), THEN (Login is TRUE). It uses only true/false conditions. Boolean Logic allows your program to make decisions based on several conditions.	
EVENT DRIVEN PROGRAM (A system waiting for a specific action (like a click) to trigger a response))	Submit button on an online test, Enter on lunch keypad	The code is always running, but nothing happens until the user triggers the specific event (the button click). That action executes the program's defined response (saving the data and showing a confirmation).	
RESPONSIBLE COMPUTING (A rule or consequence related to using technology responsibly)	Classroom rules, Acceptable Use Policy	These rules address responsible computing, the principles and guidelines for using technology in a way that respects the privacy, property, and well-being of others and society.	
DATA VISUALIZATION (A graphic used to show complex information and relationships in data)	Bar graph, pie chart, table	The chart is a data visualization that uses size, color, or position to allow humans to quickly analyze large sets of data, revealing trends or comparisons faster than just reading numbers.	