

TechConnected Scope and Sequence

Overview

TechConnected is made up of 18 guided projects that are designed to be adapted to any subject, allowing students to customize and focus on content creation. Each TechConnected project can be completed in between 45-90 minutes depending on how students customize the content.

Projects guide students through the creation of useful tools like a blog, pie chart, digital diary and other types of creative media with an emphasis on enhancing, sharing and demonstrating what they have learned in different subject areas. For example, students can make a blog related to their Social Studies and Language studies or make an infographic and data analysis related to Science. Along the way, students will gather experience in coding using HTML, CSS and JavaScript. At the end of each project, students can export to Sandbox for further customization or share outputs with classmates, friends and family with a public URL.

We provide a Teacher Guide for each project that gives tips on how to customize the content for different subjects and how to customize the projects for further use. TechConnected projects can be used anytime and do not follow a defined progression. Projects are labelled as Level 1 for beginners, Level 2 for intermediate learners and Level 3 for advanced learners.

Level 1 (Beginner)	Level 2 (Intermediate)	Level 3 (Advanced)
Poem	Interactive Story	Card Sorting Filter
Meme Maker	Blog	Carrot Picker
Character Card	Review App	Coin Collector
Simple Infographic	Quiz Maker	Digital Assistant
Digital Diary	Pie Chart	
Timeline	Retro TV	
	Mad Libs	
	Digital Pocket Guide	



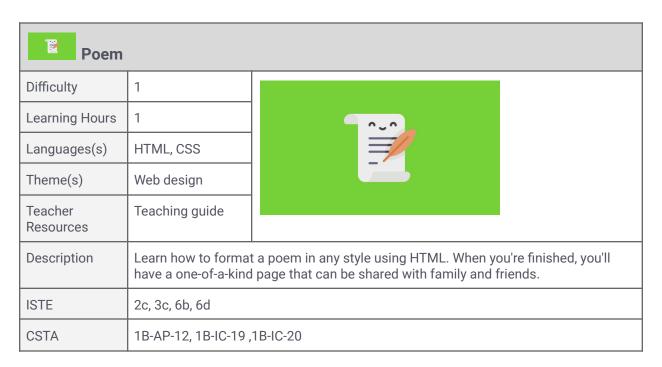
TechConnected Project Level Descriptions

Level 1 (Beginner)

Standards Alignment

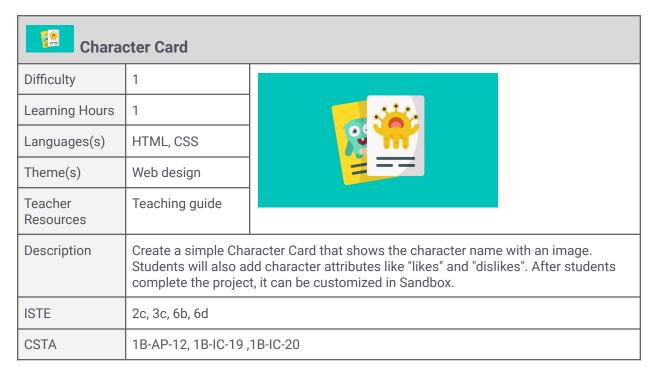
	Caracter Card	Simple Infographic	Digital Diary	Interactive Story	Timeline
ISTE	2c, 3c, 6b, 6d	2c, 3c, 6b, 6d	2c, 3c, 6b, 6d	3a, 4a, 6b	5d, 5b, 6c
CSTA	1B-AP-12, 1B-IC-19 ,1B-IC-20	1B-AP-12, 1B-IC-19 ,1B-IC-20	1B-AP-12, 1B-IC-19 ,1B-IC-20	1B-AP-12, 1B-IC-19 ,1B-IC-20	2-AP-14, 2-AP-16

Guided Projects



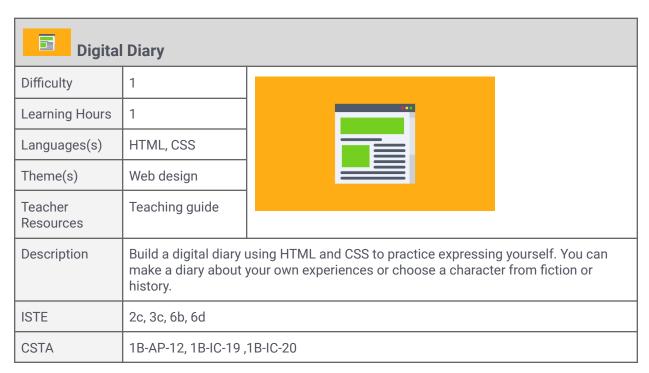


Meme Maker			
Difficulty	1		
Learning Hours	1		
Languages(s)	HTML, CSS		
Theme(s)	Web design		
Teacher Resources	Teaching guide		
Description	Design your own meme with a custom image and text. Along the way, learn how HTML and CSS are used together.		
ISTE	2c, 3c, 6b, 6d		
CSTA	1B-AP-12, 1B-IC-19 ,1B-IC-20		



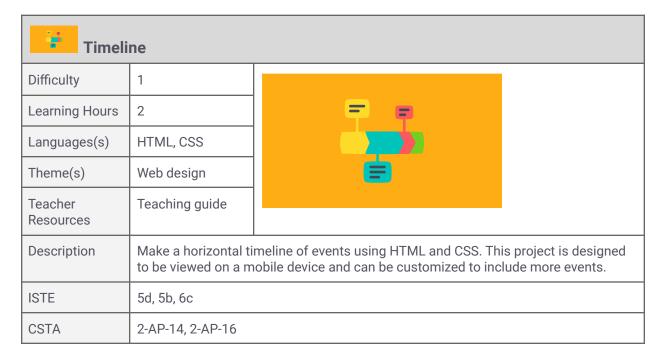


Simple	Simple Infographic				
Difficulty	1				
Learning Hours	1	Y ==			
Languages(s)	HTML, CSS				
Theme(s)	Web design				
Teacher Resources	Teaching guide				
Description	Create a simple infographic using HTML and CSS to present your research and findings or reflections on any topic. This project can easily be adapted to share information on any subject with three subsections.				
ISTE	2c, 3c, 6b, 6d				
CSTA	1B-AP-12, 1B-IC-19 ,	1B-IC-20			





TechConnected - Interactive Story		
fficulty	1	
earning Hours	2	
Languages(s)	HTML, JS	(0)
Theme(s)	Programming, Web design	
Teacher Resources	Teaching guide	
Description	creativity to make ar	story using a combination of logic, JavaScript conditionals organized story tree. Make a short story in the Guided Print the sandbox to expand the story.
ISTE	3a, 4a, 6b	
CSTA	1B-AP-12, 1B-IC-19,	1B-IC-20



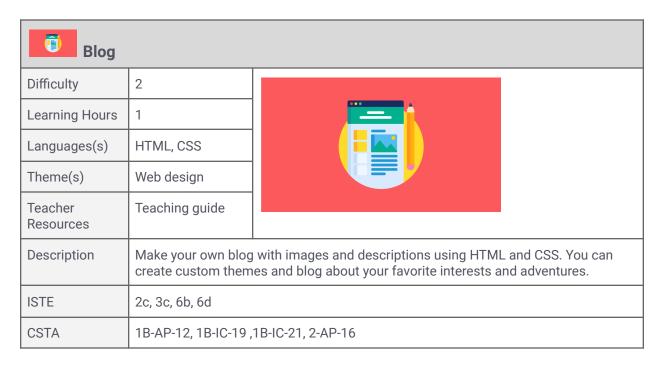


Level 2 (Intermediate)

Standards Alignment

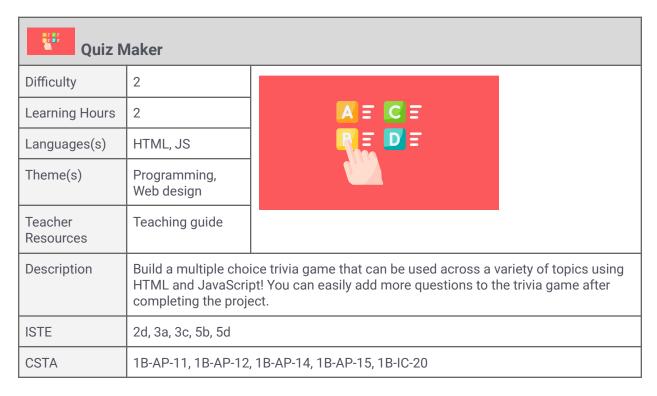
	Blog	Review App	Quiz Maker	Pie Chart	Retro TV	Mad Libs	Digital Pocket Guide
ISTE	2c, 3c, 6b, 6d	2c, 3c, 6b, 6d	2d, 3a, 3c, 5b, 5d	5a, 5b, 5d, 6c	5C, 6B, 6D	2c, 3c, 6b, 6d	1d, 3c, 6d
CSTA	1B-AP-12, 1B-IC-19 ,1B-IC-21, 2-AP-16	2-AP-16	1B-AP-11, 1B-AP-12, 1B-AP-14, 1B-AP-15, 1B-IC-20	1B-DA-06, 1B-DA-07, 1B-AP-09, 2-DA-07, 2-DA-08	1B-IC-21, 2-AP-11, 2-AP-12, 2-AP-13, 2-AP-16,	2-AP-13, 2-AP-14, 2-AP-16	1B-DA-06, 1B-AP-12

Guided Projects





Review App			
Difficulty	2		
Learning Hours	2		
Languages(s)	HTML, CSS		
Theme(s)	Web design		
Teacher Resources	Teaching guide		
Description	Create a book review app using HTML and CSS to write an introduction to introduce your app, along with 2 reviews of any book of your choosing.		
ISTE	2c, 3c, 6b, 6d		
CSTA	2-AP-16		



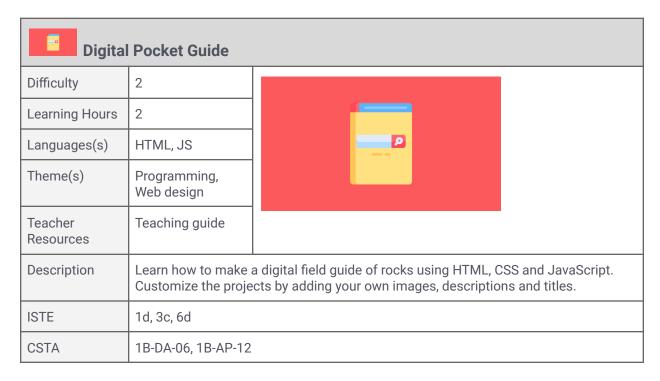


Pie Ch	Pie Chart				
Difficulty	2				
Learning Hours	1				
Languages(s)	HTML, JS				
Theme(s)	Data science, Programming				
Teacher Resources	Teaching guide				
Description	By using HTML and JavaScript, make your own pie chart. In this project, you will learn how to use a JavaScript array to visualize data. Once you learn how to add the data, you can customize the pie chart with new sections.				
ISTE	5a, 5b, 5d, 6c				
CSTA	1B-DA-06, 1B-DA-07, 1B-AP-09, 2-DA-07, 2-DA-08				

Retro	Retro TV			
Difficulty	2			
Learning Hours	2			
Languages(s)	HTML, CSS, JS			
Theme(s)	Programming, Web design			
Teacher Resources	Teaching guide			
Description	Learn how to design a retro-style television with animated GIFs using HTML, CSS and JavaScript. Customize the project with your own GIFs and add multiple channels.			
ISTE	5C, 6B, 6D			
CSTA	1B-IC-21, 2-AP-11, 2-AP-12, 2-AP-13, 2-AP-16			



Mad L	Mad Libs				
Difficulty	2				
Learning Hours	1	PLAY			
Languages(s)	HTML, JS	V			
Theme(s)	Programming, Web design				
Teacher Resources	Teaching guide				
Description	Build a digital Mad Libs style story using HTML and JavaScript. Practice using a wide range of vocabulary elements in a fun way that allows for creative storytelling.				
ISTE	2c, 3c, 6b, 6d				
CSTA	2-AP-13, 2-AP-14, 2-AP-16				



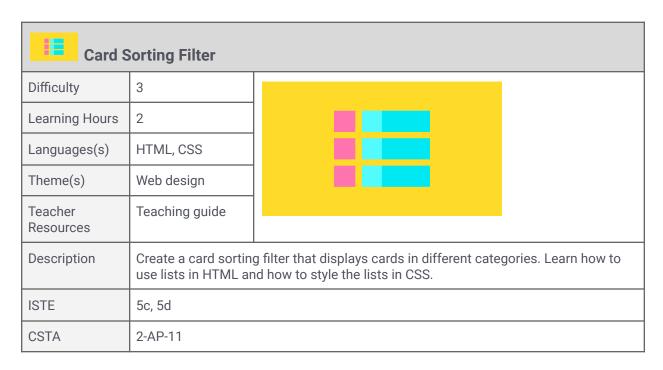


Level 3 (Advanced)

Standards Alignment

	Card Sorting Filter	Carrot Picker	Coin Collector	Digital Assistant
ISTE	5c, 5d	5b, 5c, 6d	2c, 3c, 5c, 5d, 6b	3a, 3b, 5c, 5d
CSTA	2-AP-11	2-AP-11, 2-AP-12, 2-AP-13, 2-AP-16, 2-AP-17	1B-AP-09, 2-AP-11, 1B-AP-10, 1B-AP-12, 2-AP-14, 1B-1C-19	2-AP-10, 2-AP-11, 2-AP-12, 2-AP-16

Guided Projects





Carrot	Carrot Picker			
Difficulty	3			
Learning Hours	2	A F		
Languages(s)	HTML, CSS, JS	.99.		
Theme(s)	Game development, Programming			
Teacher Resources	Teaching guide			
Description	Learn how to build a "whack-a-mole" style game using HTML, CSS and JavaScript. Learn to set up a scoring system and how to customize the characters.			
ISTE	5b, 5c, 6d			
CSTA	2-AP-11, 2-AP-12, 2-AP-13, 2-AP-16, 2-AP-17			

Coin Collector			
Difficulty	3		
Learning Hours	4		
Languages(s)	HTML, JS		
Theme(s)	Game development, Programming		
Teacher Resources	Teaching guide		
Description	Learn to make a coin collector game using Phaser, a JavaScript framework for designing games. Customize the game with your own player, background and items to collect.		
ISTE	2c, 3c, 5c, 5d, 6b		
CSTA	1B-AP-09, 2-AP-11, 1B-AP-10, 1B-AP-12, 2-AP-14, 1B-1C-19		



Digital Assistant			
Difficulty	3		
Learning Hours	2		
Languages(s)	HTML, CSS, JS	(t (c) 1)	
Theme(s)	Artificial intelligence, Programming, Web design		
Teacher Resources	Teaching guide		
Description	Learn advanced skills in JavaScript like making arrays and how to combine strings and variables through concatenation to make a personalized digital assistant.		
ISTE	3a, 3b, 5c, 5d		
CSTA	2-AP-10, 2-AP-11, 2-AP-12, 2-AP-16		