

Evaluation Report for Bay Area Community Resources Kids Code Summer 2019



University of California

Agriculture and Natural Resources | 4-H Youth Development Program

Kids Code Summer 2019

Seventy 4th and 5th grade youth engaged with computer science education over five weeks from May to June 2019 delivered by two BACR educators. A post-program survey was collected using Qualtrics.



Kids Code is a place where



It's okay to make mistakes (81% Yes)



Adults care about me (74% Yes)



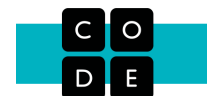
I feel safe (63% Yes)



I feel like I belong (59% Yes)

Curriculum

Unplugged activities included code.org's Paper Planes, My Robotic Friends, and Relay Programming.



Plugged lessons used MIT's Scratch and CS First's *Storytelling* module where youth were creative by programming a story each class.



Outcomes

Youth reported that Kids Code taught:

60% how to make a list of steps to follow to finish a task.

59% to break down a larger problem into smaller parts to make it more manageable.

Careers

Only 39% would like a job in computer science, while 24% sort of and 37% do not.

How much do you like computer science?



As a result of Kids Code, I am more confident in my ability to do computer science.



What students say about themselves	Yes	Sort Of	No
The Kids Code program gives me the opportunity to explore something I really care about	54%	36%	10%
I am passionate about the things I do in Kids Code	44%	42%	14%
I want to learn all I can about computer programming in Kids Code	60%	28%	12%
Would you like a job in computer science?	39%	24%	37%
	A lot	A little	Not at all
How much do you like computer science	48%	40%	12%

Kids Code Program	Yes	Usually	Not	No	Kids Code Program	Yes	Usual-ly	Not Really	No
Adults care about me	74%	12%	10%	4%	I am encouraged to plan for my future	52%	21%	13%	13%
Others like me	48%	29%	17%	6%	I get to choose what I want to do	47%	21%	17%	15%
I feel safe	63%	21%	12%	4%	I have a chance to be a leader	48%	27%	13%	13%
I get to figure things out for myself	48%	36%	7%	9%	I learn about ways to help my community	59%	18%	13%	10%
It's okay to make mistakes	81%	9%	5%	5%	I feel like I belong	59%	20%	14%	8%
I get to teach others what I have learned	49%	22%	16%	13%	I get to make group decisions	45%	23%	11%	21%
I get to do things that I like	54%	24%	15%	7%					

	Yes	Sort of	No
Learn new things about computer science?	66%	22%	12%
Talk about how computer science can be used to solve everyday problems?	49%	37%	15%

Kids Code Outcomes	Yes	Sort of	No	
Break down a larger problem into smaller parts to make it more manageable?	59%	35%	6%	
How to identify what pieces of information are unnecessary when solving a problem?	39%	49%	12%	
How to adapt a plan in response to new information?	50%	42%	8%	
Develop a plan to deal with a problem?	51%	32%	17%	
How to define the similarity between things?	57%	37%	6%	
How to find one solution that will solve multiple problems you are working on?	49%	42%	9%	
How to make a list of steps to follow to finish a task?	60%	31%	9%	
	A lot	Some	A little	No
More confident in your ability to do computer science?	43%	26%	25%	6%
More confident in figuring things out that you don't understand?	41%	41%	14%	5%
Willing to work harder at things that are difficult?	45%	32%	14%	9%
Able to set aside differences to work with others to achieve a common goal or solution?	44%	35%	9%	12%
Aware of your strengths and weaknesses when working with others on a problem?	52%	31%	8%	9%
Able to deal with open-ended problems?	50%	27%	16%	8%