

Program Plan: Staff Host codeTEEN: Intro to Web Design

Last update: Jan. 19, 2017

AT A GLANCE

Teens learn basic and intermediate coding skills through self-directed courses and projects, with help from adult volunteers who have experience in computer programming.

LEARNING OUTCOMES

Participants will:

- Apply basic coding concepts like algorithms, loops, and functions.
- Demonstrate computational thinking skills such as decomposing, pattern matching, and abstraction.
- Complete a variety of self-directed courses and projects in their area(s) of interest.
- Demonstrate leadership through peer mentoring.

LOGISTICS

Format:	Location:	Audience & Max	Run Time:	Set-up	Clean-up
		Group Size:		Time:	Time:
Volunteer-run	TDC, program	Teens (age 13-17)	90 minute weekly	10 min	10 min
with staff host.	room or open area		sessions		
	(if using	Max size depends			
Participants	Chromebooks)	on computer &	6 weeks		
work solo or in		space availability			
small groups.					

MATERIALS NEEDED

Required	Alternative Materials
 Chromebooks (preferred) or PCs – 1 per teen Volunteer nametags Paper and markers to make name tents for participants Volunteer Log In Sheet (provided) Whiteboard (1 or 2) and dry erase markers TV or large screen and a laptop for the volunteers Blue coding bin (for games and HDMI cable) 	Internet cards (if using PCs)

PREP & SET-UP CHECKLIST

Before Arriving/In Advance of the Program

	Read through the program resources (see "Additional Resources for Staff" below) Give volunteers an orientation to your library (1/2 hour early before the first program session) Ensure that staff responsible for program setup have a seating plan and schedule. Participants will need extra chairs (in a TDC) or tables and chairs (if using Chromebooks). The configuration is up to you.
Se	ession Setup
	If possible, the computers should have the volume turned on (there are videos in the modules). The TV should be set up with an HDMI cable provided, so that volunteers and participants can demonstrate what they're working on.
	You can bring in books about coding for display, but please be sure that they're at an appropriate level for beginning coders (we have many computer books, intended for professionals, that could be very intimidating.) Generally, choose books that are visual rather than text-heavy. Topics like HTML, CSS, Javascript, and "how to code" are useful. Books from the J collections may be the right level but avoid anything that looks too childish.

OVERALL TIMING

5 min – Welcome & sign in
10-20 min – Group activity or game
60-70 min – Working on projects/tutorials (with volunteers helping)
5 min - Wrap-up

SAMPLE SCHEDULE

Time:	Staff Activity:	Participant Activity:	Volunteer Activity:
5 min	Welcome teens and volunteersHelp everyone get set upRecord attendance	Enter the room and find a computer	Greet teens as they arrive
15 min		Participate in group activity or game	Lead group activity or game
65 min	 Check in with teens to see what they're working on Check in with volunteers to make sure they have everything they need 	Work on tutorials or projects	 Get teens working on an online tutorial or project Circulate to monitor activity and answer questions. Check in with each teen to see how they're doing Work on a related project using the TV (ie, class website)
5 min	Thank everyone for	Finish the section they're	Stay for a few minutes to answer

coming	working on	any last questions
 Record any feedback and pass it on to Carrie Kitchen Ask volunteers if they need anything for the next session 		Talk to staff host about how it went and any requests for the next session

POST-PROGRAM CHECKLIST

After	Each Session:
	Enter participant attendance stats into PRMT. Check that volunteer attendance is correctly reported on the Volunteer Log In Sheet.
After	the Last Session:
	Return all Volunteer Log In Sheets to Maja Milavic in Volunteer Resources. Send any feedback about the program to Carrie.Kitchen@calgarylibrary.ca Your Post-Program reflection/notes for other library staff facilitating this program (note: Service Design Leads will be collecting this feedback to iterate/inform program design): What questions did participants (or volunteers) ask? Where did they get stuck? What little tweak do you want to try next time?

ADDITIONAL RESOURCES FOR STAFF

All codeTEEN documents are available on Insight:		
	Program Overview	
	Staff Host Program Plan	
	Volunteer Program Plan	