



# Virtual Tech Trek 2024

*STEMINISTS LEADING THE WAY!*

Sponsored by **25** *AMAZING* CA branches and the generosity of

**Qualcomm**  
thinkabit lab

*Mary "Dr. Mimi" Isaac and Terra Lee*

Camp co-Directors

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## Program Overview

Virtual Tech Trek Camp 2024 begins with Orientation on Sunday at 4:30, a 90 minute session for campers and coaches where we discuss the schedule and expectations regarding attendance & participation and complete team introductions in breakout groups.

From 7:30-9, campers may return for optional\* activities including opening and closing campfires, and the evening workshops. (\*Note two evening workshops are required during the six evenings.)

Camp begins promptly on Monday at 9 am and ends at either 5 or 9 PM each day, depending on whether you signed up for an evening workshop.

**REQUIRED:** Orientation and all morning sessions, Inspiration Hours, and afternoon workshops each day (ends 5 PM, total eight workshops), plus two of the optional evening workshops (out of the six).

For evening workshops, only two are required, but you may attend all and receive a Super STEMInist certificate.

- Kits will be distributed in early July for campers and coaches.
- Branches will deliver or arrange for kit pickup before July 9 for coaches, and the week before camp for campers, i.e. during the week of July 14.
- CAMPERS: Other than checking that everything is there, please do not open kits! Here is a [packing list](#) with what you should have.
- Check CampDoc REGULARLY for updated forms and camp information:
  - Each camper will receive a wristband flash drive with activity instructions and resources.
  - Updated resources will be available [HERE](#) for viewing and download.



# Tech Trek 2024:

*STEMinists Leading the Way!*



## SCHEDULE

**7/21- 7/26/2024**

Day	Time	Session	Camp Links
Tu – 7/09	12:30-4:00 pm	STEM Lingo Workshop Training	STEM LINGO
Th – 7/11	6:30-8:00 pm	All Virtual Coach Training	BST Registration

**STAFF ONLY**

Sunday 7/21	4:30-6 pm	Orientation
	7:30-9 pm	Opening Campfire (OPTIONAL)
M-F	9 am - 12 pm	Inventing a Sustainable Future
M-TH	12:30 - 5 pm	Inspiration Hour and PM Workshops
M-TH	7:30-9:00 pm	Evening Workshops
Friday	12:30-3:30 pm	Call to Action and Camp Showcase
Friday	7:30-9:00 pm	Closing Campfire (OPTIONAL)

Daily Registration



ZOOM REGISTRATIONS ARE **NOT** AUTOMATICALLY APPROVED FOR ORIENTATION AND CAMP SESSIONS

**Sign up for camp Zoom links at least 24 hours in advance to receive approval in time!**



# Schedule



Tech Trek 2024 Orientation	
	<u>Sunday</u>
Time	Activity
4:30-4:35	<i>Welcome to Tech Trek</i>
4:35-4:40	
4:40-4:45	
4:45-4:50	
4:50-4:55	
4:55-5:00	<u>Camp Fundamentals: Kits, Schedule, etc.</u>
5:00-5:05	
5:05-5:10	
5:10-5:15	
5:15-5:20	
5:20-5:25	<u>Introducing Innovation and SDGs</u>
5:25-5:30	
5:30-5:35	
5:35-5:40	
5:40-5:45	
5:45-5:50	<u>Breakout Groups Intros</u>
5:50-5:55	
5:50-6:00	
6-7:30	Dinner with family
7:30-7:40	<u>Opening Campfire</u> <u>OPTIONAL</u>
7:40-7:50	
7:50-8:00	
8:00-8:10	
8:10-8:20	
8:20-8:30	
8:30-8:40	
8:40-8:50	
8:50-9:00	

## Schedule Legend

Instructor Lead

Social Coach Lead    Build Coach Lead

Workshop Presenter + Workshop Coaches

All Coaches

Speaker

# Tech Trek - Inventing a Sustainable Future AM

	<u>Monday</u>	<u>Tuesday</u>	<u>Wednesday</u>	<u>Thursday</u>	<u>Friday</u>
Time	Activity	Activity	Activity	Activity	Activity
9:00-9:05	Welcome	Welcome and Review	Welcome and Review	Welcome and Discussion of Wearable Tech Build	Welcome and Review
9:05-9:10					
9:10-9:15	Sunday Recap and Morning Overview	<u>LED Blink Activity</u>	Strengths, Interests, and Values	Device Construction Step 4: Artistic Design, Hardware, Code	Presentation Prep and Troubleshooting Example Presentation Videos
9:15-9:20					
9:20-9:25					
9:25-9:30					
9:30-9:35	Sustainability	<u>LED Blink</u>	Engineering Design Process Optional Video		
9:35-9:40					
9:40-9:45					
9:45-9:50					
9:50-9:55	Team Name and Sustainable Goals	<u>Intro to Servos Positional and Continuous</u> <u>Working with Servos Positional and Continuous</u>			
9:55-10:00					
10:00-10:05					
10:05-10:10					
10:10-10:15	<u>Hands-on Activities Hardware Kits</u>				
10:15-10:20					
10:20-10:25					
10:25-10:30					
10:30-10:35	BREAK	BREAK	BREAK	BREAK	BREAK
10:35-10:40	<u>Intro to Arduinos</u>	<u>Programming Two Servos</u> <u>Intro LEDs and Servos</u>	Automated Wearable Device Project Steps 1, 2, & 3	Continue Device Construction Step 5: Test Your Design	Presentation Prep and Troubleshooting
10:40-10:45					
10:45-10:50					
10:50-10:55					
10:55-11:00	<u>Circuitry Basic and Schematics (LED Circuit)</u>	<u>LEDs and Servos</u>	Device Construction Step 4 Review Templates and Construct a Device	Device Construction Step 6: Improve Your Design	
11:00-11:05					
11:05-11:10					
11:10-11:15					
11:15-11:20	<u>Arduino IDE, Microcontroller Programming Structure, Comments</u>				
11:20-11:25					
11:25-11:30					
11:30-11:35					
11:35-11:40	Hardware Q&A	What Will I Be?			
11:40-11:45					
11:45-11:50					
11:50-11:55					
11:55-12:00	BREAK FOR LUNCH	BREAK FOR LUNCH	BREAK FOR LUNCH	BREAK FOR LUNCH	BREAK FOR LUNCH

## Tech Trek 2024 Schedule Afternoon

	<a href="#">Monday</a>	<a href="#">Tuesday</a>	<a href="#">Wednesday</a>	<a href="#">Thursday</a>	<a href="#">Friday</a>
Time	Activity	Activity	Activity	Activity	Activity
12:30-12:40	INSPIRATION HOUR Taviare Hawkins	INSPIRATION HOUR Shoko Sakai	INSPIRATION HOUR Eileen Velez-Vega	INSPIRATION HOUR Sara Schonour	TREKKERS MAKING A DIFFERENCE Terra Lee
12:40-12:50					
12:50-1:00					
1:00-1:10					
1:10-1:20	Q & A	Q & A	Q & A	Q & A	Q & A
1:20-1:30					
1:30-1:40	Speaker Debrief/Discussion	Speaker Debrief/Discussion	Speaker Debrief/Discussion	Speaker Debrief/Discussion	CAMP SHOWCASE: <i>STEMinists</i> <i>Leading the Way!</i>
1:40-1:50					
1:50-2:00	<i>Science</i> <u>Exploring Water at Its Surface</u> <i>Mickey Sarquis</i>	<i>Technology</i> <u>Lights, Waves, and Plasma, Oh My!</u> <i>Kathreen Thome</i>	<i>Engineering</i> <u>Blowing in the Wind</u> <i>Heide Doss</i>	<i>Math</i> <u>The Magic of Paper</u> <i>Amy Anderson</i>	
2:00-2:10					
2:10-2:20					
2:20-2:30					
2:30-2:40					
2:40-2:50					
2:50-3:00					
3:00-3:10					
3:10-3:20	Break	Break	Break	Break	
3:20-3:30					
3:30-3:40	<i>Science</i> <u>Strawberries Have DNA?</u> <i>Amanda McQuade</i>	<i>Technology</i> <u>STEM Lingo</u> <i>TBD</i>	<i>Engineering</i> <u>Twinkle, Twinkle Little Star, Power=I²R</u> <i>Lisa Will</i>	<i>Math</i> <u>Math is on the Menu</u> <i>Craig Couture</i>	
3:40-3:50					
3:50-4:00					
4:00-4:10					
4:10-4:20					
4:20-4:30					
4:30-4:40					
4:40-4:50					
4:50-5:00					

## Tech Trek 2024 Schedule Evening

	<a href="#">Monday</a>	<a href="#">Tuesday</a>	<a href="#">Wednesday</a>	<a href="#">Thursday</a>	<a href="#">Friday</a>
Time	Activity	Activity	Activity	Activity	Activity
7:30-7:40	<i>Science</i> <u>Raise Your Hands, Raise Your Voices</u> <i>Mary Isaac</i>	<i>Technology</i> <u>Touring a Tokamak</u> <i>Kathreen Thome</i>	<i>Engineering</i> <u>Engineering a Pathway to MANY Opportunities</u> <i>Kimberly Rogge-Obando</i>	<i>Math</i> <u>Leading Into the Future</u> <i>Dr. Tracy Nguyen</i>	<i>Closing Campfire OPTIONAL</i>  Online Escape Room
7:40-7:50					
7:50-8:00					
8:00-8:10					
8:10-8:20					
8:20-8:30					
8:30-8:40					
8:40-8:50					
8:50-9:00					