Tech Trek 2022: STEMinists Taking Charge!

SCHEDULE

6/19- 6/24/2022

7/24- 7/29/2022

Date	Time	Session	Link
Friday	12-3 pm	Tech Support Office Hours	OH Registration Link
Sunday	4:30-6 pm	Orientation **(FRIDAY)**	O Registration Link
	7:30-11 pm	Social Activities (Movie, game OPTIONAL)	S Registration Link
M-F	9 am - 12 pm	Inventing a Sustainable Future	AM Registration Link
M-TH	12:30 - 5 pm	Inspiration Hour and PM Workshops	PM Registration Link
M-TH	7-8:30 pm	Evening Workshops	EVE Registration Link
F	12:30-3:30 pm	Call to Action and Camp Showcase	SHOW Registration Link

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!

![AAUW of California logo]

Tech Trek 2022 Orientation	
	Sunday
Time	**Activity**
4:30-4:35	***Welcome to Tech Trek***
4:35-4:40	
4:40-4:45	
4:45-4:50	**Camp Fundamentals Schedule etc.**
4:50-4:55	
4:55-5:00	**Qualcomm World of Work and IoT**
5:00-5:05	
5:05-5:10	
5:10-5:15	
5:15-5:20	
5:20-5:25	
5:25-5:30	
5:30-5:35	
5:35-5:40	
5:40-5:45	**Breakout Groups Intros/Flipgrid How To**
5:45-5:50	
5:50-5:55	
5:50-6:00	

Camp informally begins on Sunday with an Orientation session for campers and coaches, where camp rules are discussed, including expectations regarding attendance and team introductions. The main session is recorded. This will be followed by optional socialization activities. Camp officially begins Monday at 9 am.

REQUIRED: All morning sessions, Inspiration Hours, and two afternoon workshops each day (ends 5 PM)

OPTIONAL: Evening workshops. May attend all. Need kits for most except evening.

Tech Trek Inventing a Sustainable Future AM

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

SAMPLE

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Tech Trek 2022 Schedule Afternoon

Time	Monday	Tuesday	Wednesday	Thursday	Friday
	Activity	**Activity**	**Activity**	**Activity**	**Activity**
12:30-12:40 12:40-12:50 12:50-1:00 1:00-1:10	INSPIRATION HOUR	INSPIRATION HOUR	INSPIRATION HOUR	INSPIRATION HOUR	Call to Action
1:10-1:20 1:20-1:30	Q & A	Q & A	Q & A	Q & A	Q & A
1:30-1:40 1:40-1:50	Speaker Debrief/Discussion	Speaker Debrief/Discussion	Speaker Debrief/Discussion	Speaker Debrief/Discussion	
1:50-2:00 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	*Science* **Exploring Water at Its Surface**	*Technology* **Lights, Waves, and Plasma, Oh My!**	*Engineering* **Blowing in the Wind**	*Math* **The Magic of Paper**	*CAMP SHOWCASE:* STEMinists Taking Charge!
3:20-3:30	Break	Break	Break	Break	
3:30-3:40 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	*Science* **Strawberries Have DNA?**	*Technology* **Magnifying the Microscope**	*Engineering* **Twinkle, Twinkle Little Star, Power=I^{2}R**	*Math:* **Math is on the Menu**	

Tech Trek 20221 Schedule Evening

Time	Monday	Tuesday	Wednesday	Thursday
	Activity	**Activity**	**Activity**	**Activity**
7:00-7:10 7:10-7:20 7:20-7:30 7:30-7:40 7:40-7:50 7:50-8:00 8:00-8:10 8:10-8:20 8:20-8:30	*Science Optional* **Raise Your Hands, Raise Your Voices**	*Technology Optional* **Touring a Tokamak**	*Engineering* **Not a Minute to Waste**	*Math Optional* **Secret of Rubiks Cube**