

Tech Trek schedule **July 21st through July 27th, 2019 - SEE NEXT PAGE FOR WORKSHOP DETAIL**

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	Monday 7/22	Tuesday 7/23	Wednesday 7/24	Thursday 7/25	Friday 7/26
1:00-2:25	Gallery (1-1:45), Photos & Bookstore Tie-Dye USC153 Women In Engineering F226 College Admissions CC MR 3	Gallery (1-1:45), Photos & Bookstore STEM Futures F121 Tie-Dye USC153 Women In Engineering F226	Field Trip (cont'd)  Albany Ave Beach	Chem. Traffic Light USC 154 Lasers USC2 228  Chemistry USC 251 Cybersecurity F 114 Rockets USC 351 Our Water USC 153	Field Trip (cont'd)  Cape May Zoo
2:35-4:00	Designs of Nature F121 Tie-Dye USC153 Women In Engineering F226 College Admissions CC MR 3	STEM Futures F121 Tie-Dye USC153 Women In Engineering F226	Field Trip (cont'd)  Seine Net Catch	Chem. Traffic Light USC 154 Lasers USC2 226  Chemistry USC 251 or 246 Cybersecurity D017 Rockets USC351	Field Trip (cont'd)
1:00-4:00 (break in middle)	Origami with LEDs J202	Origami with LEDs J202	Field Trip (con'td)  All girls to Stockton AC Campus	Little Bits CC MR 3	Field Trip (cont'd)

Follow up activities:

August: Air Show and <https://www.usaeop.com/program/ecybermission/>

Tech Trek schedule archive **July 15th through July 21st, 2018 - SEE NEXT PAGE FOR WORKSHOP DETAIL**

Sunday 7/15	Monday 7/16	Tuesday 7/17	Wednesday 7/18	Thursday 7/19	Friday 7/20	Saturday 7/21
	8:00 Breakfast N-wing	8:00 Breakfast N-wing	7:00 Breakfast N-wing	8:00 Breakfast N-wing	8:00 Breakfast N-wing	8:00 Breakfast N-wing
10:00 students	9:00 Core 1	9:00 Core 2	A: FAA (30) <i>photo</i>	9:00 Core 3	9:00 Core 4	9:30 Check out

and parents arrive - Parking Lot 7 Move-in/keys, Parents Depart Meet Alumni, Dorm Moms and Counselors  <a href="#">Survey Cyber</a>	Earsketch F114 CybSec D017 Water USC 153 Rockets USC 351	Earsketch F114 CybSec D017 Water USC 153 Rockets USC 351	B1: Drones (10) B2: Lake (10) B3: Nature (10) B1: Lake B2: Nature B3: Drones B1: Nature B2: Drones B3: Lake	Earsketch F114 CybSec D017 Water USC 153 Rockets USC 351	Earsketch F114 CybSec D017 <a href="#">Cyber Survey</a> Water USC 153 Rockets USC 351	Dorm Floors 1-3 - Lot 7 Pick Up
12:00 Lunch N-wing	12:00 Lunch N-wing(PhotoIDs)	12:00 Lunch N-wing (IDs)	12:00 Lunch N-wing	12:00 Lunch N-wing	12:00 Lunch N-wing	
1:00 Campus Tour 2:00 Ice Breakers Meet the Nurse 3:00 <a href="#">Lab Safety</a> 3:30 Door Decor	1:00 Workshops (see detail below)	1:00 Workshops (see detail below)	A: Drones Lake Nature Rotation B: FAA (30)	1:00 Mini Core Workshops (see detail below)	1:00 Workshops (see detail below)	
4:30 Dorm Time	4:30 Dorm Time	4:30 Dorm Time	4:30 Dorm Time	4:30 Dorm Time	4:30 Dorm Time	
5:30 Dinner N-wing	5:30 Dinner N-wing	6:00 Professional Women Dinner Campus Center	5:30 Dinner N-wing	5:30 Dinner N-wing	5:30 Dinner N-wing	
7:30 Dorm Games	6:30 Choice: Garden or College Admission Secrets L115 or Ice Cream	Speed Networking	6:30 Choice Volleyball or SEAS Challenge	6:30 Movie Night or Ice Cream or Volleyball	6:30 Pack-up	
10:30 Lights Out	10:30 Lights Out	10:30 Lights Out	10:30 Lights Out	10:30 Lights Out	10:30 Lights Out	

	Monday 7/16	Tuesday 7/17	Wednesday 7/18	Thursday 7/19	Friday 7/20
1:00-2:25	Photos & Bookstore Tie-Dye USC153 Origami J202	Photos & Bookstore Tie-Dye USC153 Engineering F226	Field Trip (cont'd)	Engineering F226 Cybersecurity D017 Rockets USC351	Engineering F226 Chem of Cuisine USC135 UnknownChem USC160

	STEM Badges USC351 Saturation Art USC154 Patterns to Proofs F121	Lasers USC2228 Problem Solving J202 Microbits F121 Rock Candy USC135		Earsketch F114 Our Water USC153 Lasers USC2228 Chem of Cuisine USC135	Optical J202 <a href="#">Survey</a> -D027
2:35-4:00	Photos & Bookstore Tie-Dye USC153 Origami J202 STEM Badges USC351 Saturation Art USC154 Patterns to Proofs F121	Photos & Bookstore Tie-Dye USC153 Engineering F226 Lasers USC2228 Problem Solving J202 Rock Candy USC135	Field Trip (cont'd)	Engineering F226 Cybersecurity D017 Rockets USC351 Our Water USC153 Lasers USC2228 Chem of Cuisine USC135	Engineering F226 Chem of Cuisine USC135 UnknownChem USC160 Optical J202 <a href="#">Survey</a> -D027
1:00-4:00 (break in middle)	1:00-4:00 (break in middle)  Little Bits CC MR3		Field Trip (con'td) B: 30 girls to FAA A1: 10 to Drones A2: 10 to Lake Fred A3: 10 to Nature		

## ARCHIVES

Tech Trek schedule **July 16th through July 22nd, 2017 - SEE NEXT PAGE FOR WORKSHOP DETAIL**

Sunday 7/16	Monday 7/17	Tuesday 7/18	Wednesday 7/19	Thursday 7/20	Friday 7/21	Saturday 7/22
	8:00 Breakfast	8:00 Breakfast	7:00 Breakfast	8:00 Breakfast	8:00 Breakfast	8:00 Breakfast

	N-wing	N-wing	N-wing	N-wing	N-wing	N-wing
10:00 students and parents arrive - Parking Lot 7 Move-in/keys, Parents Depart Meet Alumni, Dorm Moms and Counselors	9:00 Core 1  Earsketch F114 CybSec D017 Electric J202 Water USC 153 Rockets USC 351	9:00 Core 2  Earsketch F114 CybSec D017 Electric J202 Water USC 153 Rockets USC 351	A: FAA (30) <i>photo</i> B1: Drones (10) B2: Lake (10) B3: Nature (12) B1: Lake B2: Nature B3: Drones B1: Nature B2: Drones B3: Lake	9:00 Core 3  Earsketch F114 CybSec D017 Electric J202 Water USC 153 Rockets USC 351	9:00 Core 4  Earsketch F114 CybSec D017 Electric J202 Water USC 153 Rockets USC 351	9:30 Check out Dorm Floors 1-3 - Lot 7 Pick Up
12:00 Lunch N-wing	12:00 Lunch N-wing(PhotoIDs)	12:00 Lunch N-wing (IDs)	12:00 Lunch N-wing	12:00 Lunch N-wing	12:00 Lunch N-wing	
1:00 Campus Tour 2:00 Ice Breakers Meet the Nurse 3:00 Lab Safety 3:30 Door Decor	1:00 Workshops  (see detail below)	1:00 Workshops  (see detail below)	A: Drones Lake Nature Rotation B: FAA (32)	1:00 Mini Core Workshops (see detail below)	1:00 Workshops  (see detail below)	
4:30 Dorm Time	4:30 Dorm Time	4:30 Dorm Time	4:30 Dorm Time	4:30 Dorm Time	4:30 Dorm Time	
5:30 Dinner N-wing 6:30 D004-027 <a href="#">Survey Rockets</a>	5:30 Dinner N-wing	5:30 Dinner N-wing	5:30 Dinner N-wing	6:00 Professional Women Dinner Campus Center	5:30 Dinner N-wing 6:30 D004-026 <a href="#">Survey Rockets</a>	
7:30 Dorm Games	6:30 Movie or Ice Cream	6:30 Volleyball 9:00 Pixar Skype	6:30 Volleyball or STEM jobs with Jessica Shupikor Ice Cream	Speed Networking	7:30 Pack-up	
10:30 Lights Out	10:30 Lights Out	10:30 Lights Out	10:30 Lights Out	10:30 Lights Out	10:30 Lights Out	

Sunday 7/16	Monday 7/17	Tuesday 7/18	Wednesday 7/19	Thursday 7/20	Friday 7/21
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1:00-2:25	1:00-2:25 Race Car F226 Tie Dye USC153 Flashlight USC154 Chemistry of Cuisine C/D Atrium Geometric Art F121 Lasers C007	1:00-2:25 Race Car F226 Tie Dye USC153 Flashlight USC154 Origami F121 Kodu F114		1:00-2:25 Cybersecurity Makerspace	1:00-2:25 Race Car F226 Lasers C007 Flashlight USC154 Chemistry of Cuisine C/D Atrium Geometric Art F121 Unifix Cubes J202
2:35-4:00	2:35-4:00 Tie Dye USC153 Flashlight USC154 Chemistry of Cuisine C/D Atrium Geometric Art F121 Lasers C007	2:35-4:00 Race Car F226 Tie Dye USC153 Flashlight USC154 Kodu F114 Origami F121		2:35-4:00 Cybersecurity Makerspace	2:35-4:00 Race Car F225-6 Lasers C007 Flashlight USC154 Chemistry of Cuisine C/D Atrium Geometric Art F121 Unifix Cubes J202
1:00-4:00 (break in middle)	1:00-4:00 (break in middle) Little Bits J202	1:00-4:00 (break in middle) Little Bits J202		1:00-4:00 (break in middle) Our Water Earsketch Rocket Science	

Tech Trek schedule **July 17th through July 23rd, 2016**

Sunday 7/17	Monday 7/18	Tuesday 7/19	Wednesday 7/20	Thursday 7/21	Friday 7/22	Saturday 7/23
	8:00 Breakfast N-wing	8:00 Breakfast N-wing	7:00 Breakfast N-wing	8:00 Breakfast N-wing	8:00 Breakfast N-wing	8:00 Breakfast N-wing
9:30 students and parents arrive - Parking lot 7, M 10:00 Kick Off Orientation Campus Center Theater	9:00 Core 1  Apps F114 CybSec D017 Electric J228 123! USC 153	9:00 Core 2  Apps F114 CybSec D017 Electric J228 123! USC 153	FAA Field Trip Phila Tower (20)  Campus -Drones (20) -Rockets (20) Droneology F114	9:00 Core 3  Apps F114 CybSec D017 Electric J228 123! USC 153	9:00 Core 4  Apps F114 CybSec D017 Electric J228 123! USC 153	9:00 Pack up Check out ACIT - L115 Thank You Cards Journals - L104 11:00 Pick up
12:00 Family BBQ N-wing	12:00 Lunch N-wing	12:00 Lunch N-wing	Lunch @site/bus 11:45am-2:00pm	12:00 Lunch N-wing	12:00 Lunch N-wing	
1:00 Move-in, M	1:00 Workshops A: WIE F225-6 B: Kitchen Chemistry USC153 C: Underwater Flashlight USC151 D: 3D Printer J228	1:00 Workshops A: 3D Printer J228 B: WIE F225-6 C: Kitchen Chem USC153 D: Underwater Flashlight USC151	Phila Tower (20) Campus -Rockets (20) -Drones (20)  Rotate small (10) groups through oceanography activities (Anna)	1:00 Workshops A: Underwater Flashlight USC151 B: 3D Printer J228 C: WIE F225-6 D: Kitchen Chem USC153	1:00 Workshops A: Kitchen Chem USC153 B: Underwater Flashlight USC151 C: 3D Printer J228 D: WIE F225-6	
2:00 Ice Breakers 2015 Reunion  Campus Center BOT Room  <i>Lab safety video</i>  3:00 Door Decor						
4:00 Campus Tour led by 2015 alumni						
5:30 Dinner N-wing 6:30 D004-026 Survey						
	5:30 Dinner N-wing	5:30 Dinner N-wing	5:30 Dinner N-wing	6:00 Professional Women Dinner Campus Center	5:30 Dinner N-wing 6:30 D004-026 Survey	

7:00 Dorm Time	6:00 Tie-Dye	6:00 Tie-Dye	7:00 Dorm Time	Speed Networking	7:00 Dorm Time	
10:00 Lights Out	10:00 Lights Out	10:00 Lights Out	10:00 Lights Out	10:00 Lights Out	10:00 Lights Out	

Dorm Time: Thank You Cards, Journals, Women in STEM books

Tech Trek schedule July 19th through July 25th, 2015

Sunday 7/19	Monday 7/20	Tuesday 7/21	Wednesday 7/22 (Ana Kay and Liz arrive AAUW)	Thursday 7/23 (Ellen & Phil arrive AAUW national)	Friday 7/24	Saturday 7/25
	8:00 Breakfast N-wing	8:00 Breakfast N-wing	6:45 Breakfast N-wing	8:00 Breakfast N-wing	8:00 Breakfast N-wing	8:00 Breakfast N-wing
9:30 students and parents arrive - Parking lot 7, TRL C	9:00 Core 1 A Apps F114 B MSE USC145/153	9:00 Core 2 A Apps F114 B MSE USC145/153	7:30 board Bus to FAA N-Wing 8:00 SOC 10:30 Bus to ACCC Aviation Simulation Center	9:00 Core 3 A MSE USC145/153 B Apps F114	9:00 Core 4 A MSE USC145/153 B Apps F114	9:00 Share-outs TRL C
10:00 Kick Off Speakers and Orientation TRL C 11:00 Keys	10:15 Snack	10:15 Snack		10:15 Snack	10:15 Snack	10:15 Snack
	10:30 Core 1 A Apps F114 B MSE USC145/153	10:30 Core 2 A Apps F114 B MSE USC145/153	12:00 Lunch on bus to Nacote Creek/field site	10:30 Core 3 A MSE USC145/153 B Apps F114	10:30 Core 4 A MSE USC145/153 B Apps F114	Presentations TRL C
12:00 Student/Family BBQ	12:00 Lunch N-wing	12:00 Lunch N-wing	Nacote Creek field expedition (tide and weather depending) Seine Nets  2:30 Snack	12:00 Lunch N-wing	12:00 Lunch N-wing	12:00 Closing Lunch
1:00 Move-in F Building (Rear Court)	1:00 Core 1 A Apps F114 B MSE USC145/153	1:00 Core 2 A Apps F114 B MSE USC145/153		1:00 Core 3 A MSE USC145/153 B Apps F114	1:00 Core 4 A MSE USC145/153 B Apps F114	1:30 parents pick up - parking lot 7
2:30 Snack	2:30 Snack	2:30 Snack		2:30 Snack	2:30 Snack	
Group Activities: Name Games	2:45 Geodome Workshop C/D	2:45 A Underwater Flashlight	4:15 Board bus Return to campus	2:45 A Chemistry Nights USC 251	2:45 Animal Labs Workshop	



Door Decorating (KS) Team Building - Puzzle Triads Cup Stacking Two Truths and a Lie  3:30 Campus Tour	Atrium Ice cream making Robot pin making	Workshop USC 153 B Chemistry Nights USC 251		B Underwater Flashlight Workshop USC 153	Lower E	
4:15 Dorm Time/Phone Home	4:15 Dorm Time/Phone Home	4:15 Dorm Time/Phone Home	4:45 Dorm Time/Phone Home	4:15 Dorm Time/Phone Home	4:15 Dorm Time/Phone Home	
5:30 Kickoff dinner Campus Center BOT Room	5:30 Dinner N-wing	5:30 Dinner N-wing	Clean up/Change 6:30 Dinner N-wing	5:30 Dinner with Women Leaders CC-Event Room	5:30 Dinner N-wing	
Make Thank You Notes - Common Rooms in dorms	Tie-Dye Begins USC153	Tie-Dye Activity Concludes USC153	Thank You Notes Common Rooms in dorms	7:00 Professional Women's Night	Pack up	
9:00 Journaling	9:00 Journaling	9:00 Journaling	9:00 Journaling	9:00 Journaling	9:00 Journaling	
10:00 Lights out	10:00 Lights out	10:00 Lights out	10:00 Lights out	10:00 Lights out	10:00 Lights out	

### MIT Inventor Core Curriculum

Apps 1: Download emulators, designer and blocks basics, Cowbell App

Apps 2: Fortune Teller App (if time allows: extend app)

Apps 3: PushMe Game App (if time allows: extend app to Mole Mash)

Apps 4: DigitalDoodle Drawing App (if time allows: extend app)

### Hands-on Math-Science Core Curriculum

MSE CE: Lip Gloss Lab - Chemical Engineering

MSE 1: Twizzler Sizzler: Identify dependent and independent variables (measure twizzlers)

MSE 2: Knotty Problem: Adding knots to rope to predict change in length

MSE 3: Spaghetti Strength test: add pennies to the cups until spaghetti breaks

MSE 4: Golf ball slope-intercept

## Equations of Attack Moving Madness

Supervision:

Breakfast, classes, lunch - core teachers

Workshops through dinner - Workshop professor and college students

Dinner & Night Activities - Volunteers, college students, house moms spend time with girls - core teachers stay overnight

Overnight - house mom, Volunteers (designated “on-call” contacts are the nurse, the urgent care and the ER) - handouts will follow

\*\*Offer practicum credits/volunteer credit for education students, preservice experience

### **SUPPLIES needed for Hands-on Math-Science Core Curriculum**

MSE 1: Twizzler Sizzler

Three Twizzlers per student (minimum)

Graph paper

Pencil

Lined paper

colored pencils

rulers or measuring tape - KAREN WILL SUPPLY THESE

Laptops/Chromebooks, Tablets, Desktop Computers

Overhead or whiteboard

Worksheet with instructions- KAREN WILL SUPPLY THIS

MSE 2: Knotty Problem

Multiple ropes of varying widths (approximately 1 yard each) - KAREN WILL SUPPLY THESE

a meter stick or metric tape - KAREN WILL SUPPLY THESE

graph paper

notebook paper

colored pencils

ruler

pencil

Laptops/Chromebooks, Tablets, Desktop Computers

MSE 3: Golf ball slope-intercept

MSE 4: Spaghetti Strength

1-2 paper cups per pair  
1-2 lengths of string per pair  
100 pennies per pair  
30+ spaghetti noodles (uncooked) per pair  
pencil  
paper  
worksheet - KAREN WILL SUPPLY THESE  
colored pencils  
graph paper  
Laptops/Chromebooks, Tablets, Desktop Computers

#### POSSIBLE:

\*Could\* combine MSE1 and MSE2 and then also do LIP GLOSS - CHEMICAL ENGINEERING (Karen has info for this but has never done it)  
or BOTTLE ROCKETS (Karen has no instructions and has never done this, no clue but sounds cool)

#### SUPPLIES FOR LIP GLOSS - CHEMICAL ENGINEERING

##### FOR EACH STUDENT:

½ tsp of beeswax  
1 tbl of sweet almond oil  
Small glass jars  
1 pinch of mica  
1 pinch of color  
5 – 10 drops of scent  
2 plastic spoons  
1 plastic dropper  
1 lip gloss container

Double water baths

Hotplate(s)

Pot Holders

Mittens

Stir rod/coffee stirrers

Goggles and gloves should be worn by all participants.

#### MATERIALS:

MICA AND COLOR DYE FROM Confectionery House and Wellington Fragrance <http://www.wellingtonfragrance.com/Default.aspx>

- 5 PG102 Silver Sparkle Mica
- 5 PG104 Gold Mica
- 5 PG106 Orange Mica
- 5 PG107 Red Mica
- 5 PG108 Violet Mica
- 5 PG120 FD&C Yellow No. 5
- 5 PG122 D&C Red No. 28
- 5 PG123 D&C Red No. 33
- 5 PG125 D&C Orange 5
- 5 PG127 Red No. 7 D & C
- 5 PG128 Red No. 6 D & C
- 5 PG129 Purple Mica
- 5 PG131 Shimmering Red Mica
- 5 PG132 Semi-White Mica

OILS AND FLAVORINGS FROM RACHELS SUPPLY. <http://www.rachelssupply.com/cosmetic1.htm>

- 12 RB062402 Case of 10 ea. 1/4 ounce Clear Lipbalm Jar with Dome Cap
- 5 RSLB03A 16 oz. Sweet Almond Oil
- 2 RSLB08A 5 Pound Bag Beeswax Pearls
- 1 RSLB26A 10 Ea. Bubblegum
- 1 RSLB32A 10 Ea. Peppermint
- 1 RSLB34A 10 Ea. Tropical Punch
- 4 4 oz. RN4020 Wheat Germ Oil

#### **QUESTIONS:**

Can we make copies of worksheets for the girls on campus?

Can/will the girls be provided a binder to keep all of their papers together?