



San Bernardino Forestry Challenge

Session 1 November 5-8

Hubert Eaton Scout Reservation

2025 SAN BERNARDINO FORESTRY CHALLENGE

SCHEDULE OF EVENTS

Wednesday

4:00 to 5:30	Registration and Housing Assignments
5:30 to 6:30	Dinner
6:45 to 8:15	Welcome and Focus Topic Question presented / Q&A
8:30 to 10:00	Evening Activities
10:00	Report to Cabins

Thursday

8:00 to 8:45	Breakfast
8:55 to 9:00	Gather for Field Training
9:15 to 12:00	Field Training
12:00 to 12:45	Lunch
1:00 to 1:15	Gather for Data Collection
1:15 to 4:00	Data Collection
4:15 to 5:00	Group Photo
5:30 to 6:30	Dinner
7:00 to 10:30	Teams Prepare Presentations / Ask a Forester appointments
10:30	Report to Cabins

Friday

8:00 to 8:45	Breakfast
8:45 to 9:00	Gather for Field Testing Instructions
9:00 to 9:30	Travel to Camp Bighorn
9:30 to 12:00	Field Testing / Activities, Pacing Contest, School Photos
12:00 to 1:00	Lunch
1:00 to 4:40	Field Testing / Activities, Pacing Contest, School Photos
4:40 to 5:00	Field Test Review
5:00 to 5:15	Return to Camp Pollock
5:30 to 6:30	Dinner
6:30 to 9:30	Teams Finish Preparing Presentations
9:30 to 10:30	Evening Activities
10:30	Report to Cabins

Saturday

8:00 to 8:45	Breakfast
8:15 to 9:00	Judges Orientation
9:00 to 11:15	Meet in Training Center/Teams Give Presentations
11:20 to 11:45	Judging Panel Feedback to Students
11:45 to noon	Awards
Noon	Lunch and Farewell

For an Overnight Medical Emergency, see Dan in Trailer Near Cabins
For Other Emergencies, see Diane in the Office or call 530-417-1960

A Note About Our Sponsors:



In addition to the sponsors on the front cover of this booklet, we would like to thank Anderson Logging for sponsoring us and providing company t-shirts and sweatshirts.

2025 San Bernardino Forestry Challenge Participants

School	County	Advisor(s)	Team #'s
Alessandro	Riverside	Erika Ruiz Pennington	9, 10, 11
Alta Vista	San Diego	Kirstin DeGeer	17
Benjamin Franklin	Los Angeles	Melinda Conde	23, 24, 25
Channel Islands	Ventura	Theresa Lujan	1, 2
Eleanor Roosevelt	Tulare	Jeff Alexander	3, 4
John F. Kennedy	Los Angeles	Jennifer Richard Gantka	26, 27, 28
La Mirada	Los Angeles	Rebecca Upson	5, 6
Littlerock	Los Angeles	Robin Olsen	29, 30, 31
North County Tech	San Diego	Travis Shephard	21, 22
Norwalk	Los Angeles	Stefanie Barone	7, 8
Palisades	Los Angeles	Steve Engelmann	12, 13, 14
Panorama	Los Angeles	Stacie Willard	18, 19, 20
Sequoia	Tulare	Sofia Pacheco	32, 33, 34
Vista	Los Angeles	Sara Benner	15, 16

Building	Occupants	# People
Pollock 1 - Girls	A- Alessandro	6
	B- Littlerock	7
	C- Alta Vista	4
	D- Channel Islands, Eleanor Roosevelt	8
Pollock 2 - Boys	A- Channel Islands, Vista	8
	B- Alessandro, North County Tech	12
	C- Eleanor Roosevelt w/ 1 advisor	8
	D- Norwalk and La Mirada	12
	Lobby – Eleanor Roosevelt, North Co Tech	2 advisors
Pollock 3 - Girls	A- JFK, Ben Franklin, & Panorama advisor	4
	B- Benjamin Franklin students	10
	C- Panorama students	5
	D- John F. Kennedy students	9
Pollock 4 – Boys	A- Littlerock and Alta Vista	8
	B- Sequoia and Panorama	12
	C- Palisades	8
	D- JFK and Ben Franklin students	11
	Lobby – JFK, Ben Franklin, Pano advisors	3
Pollock 5 - Girls	A- Vista	6
	B- La Mirada, Norwalk	11
	C- Sequoia	8
	D- North County Tech, Palisades	11

2025 Forestry Challenge Rules

I. Participant Eligibility

1. Students enrolled in grades 9 through 12 are eligible to participate. Community college and middle school students may participate if the facility can accommodate them, at the discretion of the Forestry Challenge (FC) Coordinator.
2. Teams will consist of two to five students from the same school, homeschool, or scouting group, tribe, club, or affiliated organization (subsequently referred to as "school"). More than one team may enter from each school as space permits. There may be a need to restrict the number of students per school, depending on the facility's capacity.
3. An adult chaperone must accompany each school. The chaperone can be a teacher, staff member, or approved parent from that school. One chaperone can supervise more than one team from the same school, as housing arrangements permit. All chaperones must be fingerprinted and approved to chaperone by their local school district.
4. For schools bringing only one adult, an additional adult of the opposite gender must be available on standby to ensure proper overnight supervision. Schools will be notified the day after the registration deadline if additional adults are required to ensure correct ratios.
5. Each participant must arrive with all applicable Liability, Medical, and Media Release Forms fully signed in order to participate. These forms must be turned in at registration or received prior to the event.
6. Only registered participants with signed forms will be allowed on site.
7. Chaperones and students will check in together unless prior arrangements are made with the FC Coordinator.
8. At least one school chaperone must be on site with their students at all times to ensure that team members display proper conduct during the event and at the host facility.

II. Participant Behavior

1. Participants will report any illness or personal emergency to the Coordinator or designated staff.
2. If participants break or damage the property of the FC or the host site, they are responsible for reporting the damage and paying for its repair.
3. All students must attend and fully participate in all scheduled activities, in the designated locations for those activities.
4. Although chaperones must attend all activities to properly supervise students, they are not allowed to actively participate in field testing or focus topic presentation preparation.
5. Students must report to and stay in their assigned cabins or dormitories at the designated time at the end of each day. Facility housing will be described in advance, and if it does not meet the needs of one or more students, the advisor must ask for alternate arrangements in advance of the start of the event. If acceptable accommodations are available, there may be a charge for these alternative arrangements.
6. No students or chaperones are allowed to leave the host site without approval.
7. Tobacco, drugs, vaping, and alcohol are prohibited for all parties during the entirety of the event.
8. Participants are expected to behave in a professional manner, consistent with behavior appropriate to the workplace. Harassment, bullying, and any form of

discrimination is NOT appropriate workplace behavior. Any observance or reporting of such actions will be thoroughly investigated and disciplined. Disciplinary actions can include disqualification and/or dismissal from the event.

III. Registration Fees and Deadlines

1. A completed online registration form and deposits must be submitted 12 days before the start of the event.
Registration form due dates are as follows:
 - Shasta FC registration is due September 13
 - Santa Cruz FC registration is due September 27
 - El Dorado FC registration is due October 11
 - San Bernardino FC Session 1 registration is due October 25
 - San Bernardino FC Session 2 registration is due November 1
2. There is no registration fee for the 2024 event season. Instead, a \$250 per School refundable deposit will be required.
3. The deposit is due 12 days before the start of the event, either as a check postmarked as of that date or as a PayPal deposit. Checks should be made payable to *Forestry Educators Incorporated* and mailed to P.O Box 271, Shingle Springs, CA 95682. PayPal deposits are preferred and can be made to the holding account linked here.
 - Include the school name in the memo line.
 - Please make only one payment per school.
 - Contact FC Coordinator if parents are making deposits for individual students.
4. An online invoice generator is available here to teachers to assist with the payment process.
5. Deposits will be forfeited in full if the attending school brings fewer teams than registered, OR brings less than 75% of the students registered, at the Director's discretion. A breakdown chart is available at the bottom of the page.
6. In the event a registered student drops out after the deadline, a new student can be substituted to maintain attendance. If the substitution happens 5 days or more prior to the event, there is no restriction as to who can be swapped. If less than 5 days prior, the student substituted must be of the same gender to maintain housing arrangements.

IV. Competition Components and Expectations

1. The FC scoring has two parts: a Field Test and a Presentation. These two parts will be scored separately. The Field Test will be worth 60% and the Presentation will be worth 40% of the total score. The point ratio for Championships will be 60% Presentation and 40% Test.
2. The Field Test is completed as a team and is comprehensive, with many questions using props and tools such as tree specimens and forestry equipment. Copies of the test key will be posted after all testing is complete for viewing only. Photography of the test key is prohibited. The FC Coordinator or designee will be available to answer questions.
3. Test questions will be developed using the FC Learning Objectives and reference materials linked to the Objectives as a guide but are not necessarily limited to those items. Knowledge of basic ecological concepts and information presented during the event may be tested as well.
4. The use of personal electronic devices such as cell phones is not allowed during field testing, presentation prep time (besides for transferring pictures), and the final morning

while in the waiting area. Devices will be confiscated if deemed necessary by authorized staff and volunteers.

5. Students will not be allowed to use their reference materials, including cellular devices, during the Field Test. All materials needed during the Field Test, including identification keys, reference materials, calculators, and equipment, will be provided at the testing stations.
6. Any written and electronic materials teams bring to the event and gather while at the event may be used during presentation prep time. Laptop computers will be used, and there will be equal access to wireless internet when available. Hotspot devices will be allowed as determined by the FC Coordinator.
7. Students will not be allowed to review presentation materials outside of designated presentation work times.
8. At the beginning of the presentation schedule, students and chaperones will be gathered in one area to wait until their presentation time begins. Chaperones will be allowed to attend presentations by their school.
9. Each team's Field Test and Presentation scores will be totaled, and overall place awards will be given accordingly. All participants will receive a certificate of participation.

V. Other

1. Transportation to, from, and during an event will be the responsibility of each participating team unless transportation is provided during an event.
2. Students may attend more than one regular event during the fall season. If a team with one or more repeating students places in the top 5, that team will not displace a team that is competing for the first time that season.
3. Students and chaperones will be asked to complete an evaluation form at the conclusion of the event.
4. Grievances must be submitted in writing to the FC Coordinator by the end of the review period immediately following the Field Test or the Presentation portion of the event. Grievances will be reviewed by the Coordinator and discussed with involved judges and/or volunteers. The Coordinator's decisions are final.
5. FC rules are subject to change by the Coordinator. Any changes will be explained in advance to all teams and chaperones.
6. Host site/facility rules will be enforced in addition to FC Rules.
7. Any infraction of any of the FC Rules may result in disqualification and/or dismissal from the event and the host site.



The Forestry Challenge is part of California Climate Investments, a statewide program that puts billions of Cap-and-Trade dollars to work reducing GHG emissions, strengthening the economy, and improving public health and the environment – particularly in disadvantaged communities. The Cap-and-Trade program also creates a financial incentive for industries to invest in clean technologies and develop innovative ways to reduce pollution. California Climate Investments projects include affordable housing, renewable energy, public transportation, zero-emission vehicles, environmental restoration, more sustainable agriculture, recycling, and much more. At least 35 percent of these investments are located within and benefiting residents of disadvantaged communities, low-income communities, and low-income households across California. For more information, visit the California Climate Investments website at: www.caclimateinvestments.ca.gov.



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EXPANDED SCHEDULE FOR WEDNESDAY

4:00 to 5:30 Registration – Pollock Lodge 1

5:30 to 6:30 Dinner – Dining Hall

6:45 to 7:00 Welcome – Training Center

❖ Please gather by 6:40

❖ Bring Focus Topic Question, Paper, and Pencil

7:00 to 8:15 Focus Topic Question presented / Q&A

8:30 to 10:00 Evening Activities

10:00 Report to Cabins

10:30 Lights Out

Thank You to the 2025 San Bernardino Forestry Challenge Volunteers

Without volunteers, the Forestry Challenge simply wouldn't happen. In addition to the camp staff who lead activities and serve as presentation judges, here are the individuals who gave their time and expertise for this event:

Alexandria Sabido
Blaze Flores
Dan Cullinane
David Haas
David Reinhart
Francisco De La Torre-Allen
Greg Dion
Henry Herrera

Jarrold Dowden
Jaskiran Bakshi
Jeremy Zagarella
Jocelyn Perez
Joel Macias
Johnny Kelly
Johnson Boothby
Jon Cartwright
Kaylee Burr

Laura Dyberg
Marco DeAnda
Matt Salmassian
Nanette Van Esch
Sally Haas
Sam Conn
Walter Ruzzo
Zoe Bailey

EXPANDED SCHEDULE FOR THURSDAY

- 8:00 to 8:45 Breakfast
- 8:55 Field Training Introduction
- ❖ Gather outside Training Center
 - ❖ Training Worksheets will be distributed
- 9:15 to 11:55 Field Training
- 12:00 to 12:45 Lunch
- 1:00 to 1:15 Gather for Data Collection outside Training Center
- ❖ Bring Cruiser Vest, Focus Topic Question, Camera, Paper, Clipboard, and Water Bottle
 - ❖ Wear long sleeves, long pants, and boots
- 1:15 to 1:30 Walk to Units 6 and 7
- 1:30 to 4:00 Data Collection, including Demonstration Plot
- 4:15 to 5:00 Group Photo
- 5:30 to 6:30 Dinner
- 7:00 to 10:30 Students Prepare Presentations in Training Center
- ❖ Each team should have their own table
 - ❖ Laptops should be used
 - ❖ Students should not leave the Training Center without permission
- 7:15 “Ask a Forester” introductions in Training Center
- 7:20 to 9:30 “Ask a Forester” appointments in center of Training Center
- 10:30 Turn in Computers and Report to Cabins
- 11:00 Lights out

Training Schedule

Training Track A	9:15 - 9:55	9:55 - 10:35	10:35 – 11:15	11:15 – 11:55
Growing Regions, Tree ID, Species Composition	Teams 1-8	Teams 26-34	Teams 18-25	Teams 9-17
Angle Gauge, Increment Borer, Site Class	Teams 9-17	Teams 1-8	Teams 26-34	Teams 18-25
Volume Tables, Market Values	Teams 18-25	Teams 9-17	Teams 1-8	Teams 26-34
Maps	Teams 26-34	Teams 18-25	Teams 9-17	Teams 1-8

Training Track B	9:15 - 9:55	9:55 - 10:35	10:35 – 11:15	11:15 – 11:55
Dichotomous Plant Keys	Teams 1-8	Teams 26-34	Teams 18-25	Teams 9-17
Diameter Tape, Clinometer, Biltmore Stick	Teams 9-17	Teams 1-8	Teams 26-34	Teams 18-25
Densitometer, Pacing, Compass	Teams 18-25	Teams 9-17	Teams 1-8	Teams 26-34
Tech	Teams 26-34	Teams 18-25	Teams 9-17	Teams 1-8

2025 SAN BERNARDINO FORESTRY CHALLENGE **“ASK A FORESTER” NOTES AND GUIDELINES**

- Ask a Forester schedules will be available Thursday evening before appointments begin.
- Arrive a few minutes before your scheduled appointment time.
- Appointments are 20 minutes in length.
- Bring any materials with you that will help make your appointment productive.
- Any number of team members may go to the appointment.
- Advisors may not go to the appointment.

EXPANDED SCHEDULE FOR FRIDAY

Time	Teams 1-16	Teams 17-34
8:00 to 8:45	Breakfast	
8:45 to 9:00	Gather for Field Testing Instructions (All Teams)	
9:00 to 9:30	Travel to Camp Bighorn for Testing and Activities	
9:30 to 12:00	Field Testing	Activities – Schedule in Insert
12:00 to 1:00	Lunch	
1:00 to 1:15	Move to Afternoon Testing/Activities	
1:15 to 4:40	Activities – Schedule in Insert	Field Testing
4:40 to 5:00	Test Review	
5:00 to 5:15	Return to Camp Pollock	
5:30 to 6:30	Dinner	
6:30 to 6:45	Instructions about Presentation Procedures	
6:45 to 9:30	Teams Finish Preparing Presentations – Training Center At 9:30 all teams must turn in their laptops and presentations	
9:30 to 10:30	Evening Activities	
10:30	Report to Cabins	

FRIDAY FIELD TESTING SCHEDULE

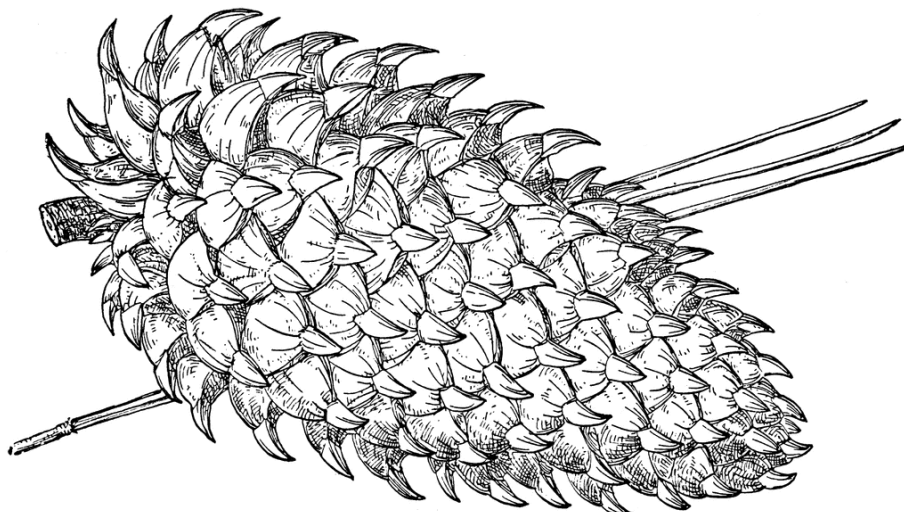
Time Station	9:30 to 10:02	10:10 to 10:42	10:50 to 11:22	11:30 to 12:02
Witchita	Teams 1 - 4	Teams 13 - 16	Teams 9 - 12	Teams 5 - 8
Creekside	Teams 5 - 8	Teams 1 - 4	Teams 13 - 16	Teams 9 - 12
Junction	Teams 9 - 12	Teams 5 - 8	Teams 1 - 4	Teams 13 - 16
Amphitheater	Teams 13 - 16	Teams 9 - 12	Teams 5 - 8	Teams 1 - 4

Time Station	1:15 to 2:25	2:30 to 3:10	3:15 to 3:55	4:00 to 4:40
Witchita	Teams 17 - 20	Teams 30 - 34	Teams 26 - 29	Teams 21 - 25
Creekside	Teams 21 - 25	Teams 17 - 20	Teams 30 - 34	Teams 26 - 29
Junction	Teams 26 - 29	Teams 21 - 25	Teams 17 - 20	Teams 30 - 34
Amphitheater	Teams 30 - 34	Teams 26 - 29	Teams 21 - 25	Teams 17 - 20

Important Information about Field Testing:

- Testing stations will be 32 or 40 minutes each with 8 or 5 minute rotations.
- Teachers will travel in the same rotation with their team but may not interact with team members at any time during the testing periods. They may, however, look at a blank copy of the test provided by the person in charge of the test station.
- Teachers need to be aware of the route to the next station and will be responsible for getting their group of students there on time.
- Teams cannot use notes, written materials, or forestry tools except those given to them at the stations.
- Teams are responsible for bringing their own clipboard.
- Students will leave all tools in place before moving to the next task center.
- At the end of the afternoon test session, Test Keys will be posted for teams for review and students will have an opportunity to revisit the stations if there are any questions.

Friday Non-testing Activity Schedule			
	Zipline	Team Building, Pacing Contest, and School Photo	Tie Dye T-shirts
9:20 to 10:10	Alta Vista Panorama No Co Tech	Littlerock Sequoia	Ben Franklin JFK
10:15 to 11:05	Ben Franklin JFK	Alta Vista Panorama No Co Tech	Littlerock Sequoia
11:10 to 12:00	Littlerock Sequoia	Ben Franklin JFK	Alta Vista Panorama No Co Tech
Lunch			
1:30 to 2:20	Channel Islands, ERCLC, La Mirada	Palisades, Vista	Norwalk, Alessandro
2:25 to 3:15	Norwalk, Alessandro	Channel Islands, ERCLC, La Mirada	Palisades, Vista
3:20 to 4:10	Palisades, Vista	Norwalk, Alessandro	Channel Islands, ERCLC, La Mirada



San Bernardino Forestry Challenge Champions

2014 – CA Academy of Math & Science
2015 – Los Osos
2016 – Los Osos
2017 – Oxford Academy
2018 – John W. North
2019 – John W. North
2021 – Palisades Charter

2022 Session 1 – Oxford Academy
2022 Session 2 - Oceanside
2023 Session 1 – Palisades
2023 Session 2 – Oceanside
2024 Session 1 – Charter Oak
2024 Session 2 – Oxford Academy

San Bernardino Forestry Challenge Pacing Contest Winners

2014 – CA Academy of Math & Science
2015 – Littlerock
2016 – Los Osos
2017 – Oxford Academy
2018 – Charter Oak
2019 – Oxford Academy
2021 – Littlerock

2022 Session 1 – Granada Hills Charter
2022 Session 2 – Oceanside
2023 Session 1 – Charter Oak
2023 Session 2 – Esperanza College Prep
2024 Session 1 – Littlerock
2024 Session 2 - Lynwood

Pacing Contest:

The goal of this contest is to pace a 66-foot distance without the use of any measuring device. To practice for this contest, we will set up a 66-foot template in a location to be announced. Stand with your heels on one line and walk with a comfortable step until your toes touch the other line. Once you know how many steps (or paces) you walk, try it without the lines. Then, measure your distance to see how close you are.

Each school will start at a central point and mark the end of their chain. Each school gets one entry. The school that can pace a distance closest to 66 feet wins the contest and takes possession of the coveted “board foot” trophy.



For the past several years, Redwood Empire and the Los Angeles Hardwood Lumberman’s Club have awarded scholarships to Forestry Challenge alumni to assist with expenses in the pursuit of a college degree in Forestry. Here are the 2025 recipients, each one earning scholarships from both donors:

Drew Zacha
Oregon State University



Kelly Cantrell
University of Montana



Rowan Galliano
Cal Poly Humboldt



Sloan Farinha
UC Berkeley



The Tom Eustis Memorial Award for Teaching Excellence



The Tom Eustis Memorial Award for Teaching Excellence was established in 2006 to honor Thomas McLoughlin Eustis. Tom was born February 7, 1958 and passed away July 8, 2006. Tom graduated from Piedmont H.S. in 1976; Cal Berkeley with a B.S. in Forestry in 1981 and in 1984 received his Masters of Forestry from Oregon State. He worked for the U.S. Forest Service where he spent time fighting fires. He earned his teaching credential through Project Pipeline and taught at C.K. McClatchy High School in Sacramento from 1999 to 2006. He was the coordinator of their Fire Science Program for five years and participated in the Forestry Challenge as a Team Advisor in 2003 and 2005. He was a dedicated supporter of the Forestry Challenge, and always a pleasure to have as a participant. Tom's positive attitude and laid-back style is missed.

Award Recipients:

- 2006 – Scott Meyers, Grant High School
- 2007 – Katie Alling, Nevada Union High School
- 2008 – Larry Wright, Rio Vista High School
- 2009 – Christie Jouaneh, Napa New Tech High School
- 2010 – Suzanna Johnson, Colfax High School
- 2011 – Shannon Clark, Argonaut High School
- 2012 – Tony White, Elk Grove High School
- 2013 – Dr. Miriam Kaplan, Soquel High School
- 2014 – Carol Germano, Anderson New Tech High School
- 2015 – Angela Metcalfe, Anaheim High School
- 2016 - Randy Lund, Tulelake High School
- 2017 – Arron White, Grant High School
- 2018 – Senna Vasquez, Christine Baker, Jerry Huang, Sac New Tech High School
- 2019 – Ann Akey, Woodside High School
- 2020 – Jenny Lucero, Coalinga High School
- 2021 – Katie Cantrell, Foresthill High School
- 2022- Bret Harnden, Ponderosa High School
- 2023- Wendy Hagan, Granada Hills Charter
- 2024 – Amara Smallwood, Golden Sierra High School



EXPANDED SCHEDULE FOR SATURDAY

8:00 to 8:45	Breakfast – Dining Hall
8:15 to 9:00	Judges Orientation – Ponderosa Lodge 1 ❖ For Judges and Timekeepers only
9:00 to 11:15	ALL TEAMS - Report to Training Center before first round of presentations ❖ Presentation room assignments distributed Friday evening ❖ All teams must complete thank you notes and evaluation forms before leaving holding area
11:20 to 11:45	Judging Panel Feedback to Students – Amphitheater
11:45 to noon	Awards – Amphitheater
Noon	Lunch and Farewell

Presentation Notes:

- * If your presentation time is not suitable, please request a change as soon as you get the schedule.
- * Teachers and parents may listen to their own team's presentation(s) but may not listen to other teams.
- * Each presentation location will have three judges, one of whom will serve as timekeeper.
- * The timekeeper will start timing when the presentation begins and show a 5 and a 1 minute warning card. The timekeeper will stop the presentation when time is up, even if the team is not finished.
- * The timekeeper will time the 5 minute question and answer period, with a 1 minute warning.
- * Teams will be able to keep their presentation materials. We encourage teams to give their presentations at school and in the community.
- * All teams will attend a review session from 11:20 to 11:45, where the judges will provide feedback to the teams, after which the awards will be presented.



CAMP POLLOCK

GREATER LOS ANGELES SCOUTING

