

www.forestrychallenge.org
San Bernardino Forestry Challenge
November 10 to 13, 2021
Hume SoCal

2021 SAN BERNARDINO FORESTRY CHALLENGE

SCHEDULE OF EVENTS

Wednesday, November 10, 2021

4:00 to 5:30 Registration
5:30 to 6:30 Dinner
7:00 to 8:15 Welcome and Focus Topic Question Presented / Q&A
8:30 to 10:00 Evening Social Time / Night Hike
10:00 Report to Dorms

Thursday, November 11, 2021

8:00 to 8:45 Breakfast
9:00 to 12:00 Field Training
12:00 to 1:00 Lunch
1:00 to 1:30 Gather and Travel to Data Collection
1:30 to 4:30 Data Collection
4:30 to 5:30 Travel Back to Hume SoCal
5:30 to 6:30 Dinner
6:30 to 6:45 Dinner Clean-up
7:00 to 10:30 Teams Prepare Presentations / "Ask a Forester" Appointments
10:45 Report to Dorms

Friday, November 12, 2021

8:00 to 9:00 Breakfast
9:00 to 9:25 Gather for Field Testing
9:30 to 12:00 Field Testing
12:00 to 1:00 Lunch
1:00 to 2:00 Group/School Photos, Pacing Contest , Field Test Review
2:00 to 5:00 Free Time / Organized Activities
5:30 to 6:30 Dinner
6:45 to 9:30 Teams Finish Preparing Presentations
9:30 to 10:15 Evening Social Time
10:30 Report to Dorms

Saturday, November 13, 2021

8:15 to 9:00 Breakfast
8:15 to 9:00 Judges Orientation
9:15 to 11:10 Teams Report to Holding Area or Give Presentations
11:20 to 11:45 Judging Panel Feedback to Students
11:45 to 12:00 Awards
12:00 Lunch and Farewell

2021 San Bernardino Forestry Challenge Participants

<u>School</u>	<u>City</u>	<u>Advisor(s)</u>	<u>Team #'s</u>
Canyon Crest Academy	San Diego	Duc Do	1
Charter Oak	Covina	Ray Edmondson	2
Citrus Hill	Perris	Debbie Wroblewski, Audrey Woelke	
		David Casey	15, 16, 17, 18
Cypress	Cypress	Erin Doherty	3
Esperanza	Los Angeles	Willa Akey, Christin Henderson	4, 5
Littlerock	Littlerock	Robin Olsen	6, 7, 8
Oxford	Cypress	Robert Nguyen	9
Palisades	Los Angeles	Steve Engelmann	10, 11, 12
Vista	Vista	Sara Benner	13, 14

Housing Assignments

<u>Dorm</u>	<u># & Gender</u>	<u>Schools</u>
Golden Eagle east	14 Males	Oxford, Palisades, Vista
Condor west	6 Males	Littlerock
Condor east	3 Males	Canyon Crest Academy
Sparrow north	12 Females	Esperanza
Sparrow south	10 Females	Littlerock
Blue Jay north	21 Females	Cypress, Oxford, Palisades, Vista

Bear Lodge

Diane and Staff

**530-417-1960
(limited reception)**

San Bernardino Forestry Challenge Champions

2014 – CA Academy of Mathematics and
Science

2015 – Los Osos High School

2016 – Los Osos High School

2017 – Oxford Academy

2018 – J. W. North High School

2019 – J. W. North High School

Pacing Contest Winners

2014 - CA Academy of Mathematics and
Science

2015 – Littlerock High School

2016 – Los Osos High School

2017 – Oxford Academy

2018 – Charter Oak High School

2019 – Oxford Academy

2021 Forestry Challenge Rules

Updates to the rules are italicized and underlined.

I. Participant Eligibility

1. Students enrolled in grades 9 through 12 are eligible to participate. Community college students and 8th graders may participate if the facility can accommodate them, as determined by the Forestry Challenge (FC) Coordinator.
2. Teams will consist of two to five students from the same school, homeschool, tribe, or scouting group. More than one team may enter from each school as space permits. However, there may be a need to restrict the number of students per school, depending on the facility's capacity.
3. An adult advisor must accompany each team. The advisor can be a teacher, staff member, or approved parent from that school. One advisor can supervise more than one team from the same school, as housing arrangements permit.
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 assure correct ratios.
5. Each participant must arrive with all applicable and signed Liability / Medical / Media Release Forms 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 team advisor must be on site with their students at all times and will be responsible to assure that team members display proper conduct during the event and at the host facility.
9. *All participants must comply with the FC COVID-19 policy.*

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.
4. Although advisors 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.
6. No students or chaperones are allowed to leave the host site without approval.
7. Tobacco, drugs, and alcohol are prohibited during all parts 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 and host site.

III. Registration Fees and Deadlines

1. Schools that pre-register by June 30, 2021, may receive a discount on the registration fees listed below. Schools that pre-register after June 30 will be expected to pay the registration fees listed below.
2. A completed registration form (available online) must be submitted 12 days before the start of the event.
3. Registration fee due dates and full amounts are as follows:
 - Shasta FC fees are \$120 per person, due September 29
 - Santa Cruz FC fees are \$215 per person, due October 13
 - El Dorado FC fees are \$215 per person, due October 27
 - San Bernardino FC fees are \$215 per person, due November 10
4. Registration fees are due upon arrival to the event and must be paid for each person attending, including teachers and adult chaperones. Fees for advisors' infants and small children may be modified on a case-by-case basis.
5. Teachers will be asked to use the online registration fee calculator as an indicator of attendance numbers for their school. This form can also be used as an invoice to initiate payment by their district.
6. Registration fee totals will be considered final the Friday before the event based on the registration fee calculator or subsequent updates provided to the FC Coordinator.
7. Student or chaperone substitutions of the same gender are allowed between the Friday prior and up to the start of the event.
8. There will be no refunds for students or chaperones who cancel after the Friday before the event, and registration fees for persons who do not attend are non-refundable.

IV. Competition Components and Expectations

1. The FC has two parts: a Field Test and a Presentation. The two parts will be scored separately. The Field Test will be worth 60% and the Presentation will be worth 40% of the total score.
2. The Field Test is completed as a team and is comprehensive in nature, with many questions using props and tools such as tree specimens and forestry equipment. One test key will be provided for each school after the testing period, to be returned by the end of the testing day. 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, Friday presentation prep time, and Saturday 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 once the first presentation period begins and will be asked to gather in one area to wait until their presentation time begins.
8. 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 advisors 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 advisors.
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.



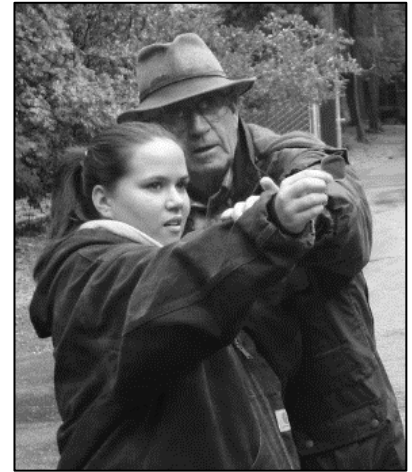
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The George Little Memorial Award for Volunteer Excellence

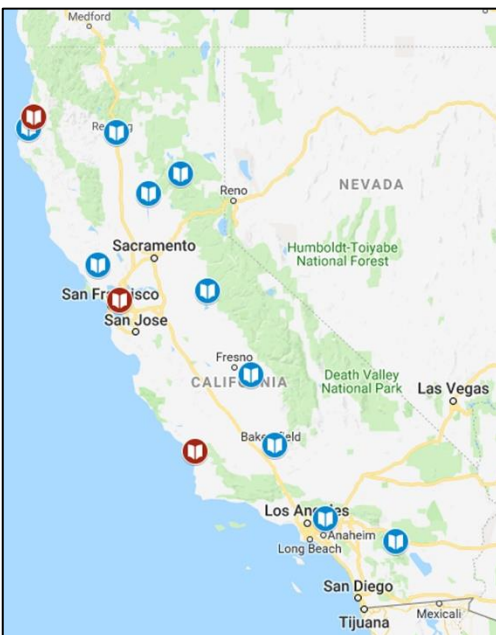
The George Little Memorial Award for Volunteer Excellence was established in 2011. George was born on May 10, 1939 and passed on June 19, 2011. He was a dedicated volunteer at the Forestry Challenge, assisting with field training and testing, even developing training materials. George served in the US Navy from 1962 to 1966 and worked in the family business at Union Planing Mill in Stockton until 2002. Union Planing Mill, founded in 1891, was a lumber, moulding, fixture, and cabinet shop. The business specialized in redwood moulding and custom work for clients including UC Berkeley North Gate and the William Randolph Hearst private estate in Wyntoon, Siskiyou County.



Award Recipients:

- 2011 – Dennis Norgord, Website Manager (aka “Tech Angel”)
- 2012 – John Nicoles, Staff Forester Extraordinaire
- 2013 – David Van Lennep, Redwood Empire Forester
- 2014 – Katie Carlson, ANTHS grad and Forestry Challenge Alum
- 2015 – Mike Garcia, Fruit Growers Supply Co., Retired
- 2016 – Nikki Visser, Event cook for El Dorado FC
- 2017 – Ernie Lory, Grizzly Flats Fire Safe Council
- 2018 – Len Lindstrand, W.M. Beaty & Associates Forester, Retired
- 2019 – Dan Cullinane, High School Teacher, Retired
- 2020 – Mike De Lasaux, Retired Forester, Cooperative Extension

Forestry Challenge Initiative to Promote College and Career Readiness



Hey Teachers! We’ve done a lot of information gathering in order to provide a well-rounded list of college and career options for students to explore in forestry and natural resources. Our website has been updated with a collection of videos about professions in the industry. We continue to publish our College and Career newsletter with information on college programs and career opportunities. We will be sending around a sign-up sheet for students who would like to subscribe. Colleges throughout California have provided informational brochures about their forestry programs that are available to students during events and will be sent home with advisors to be given to each school’s college and career guidance office.

EXPANDED SCHEDULE FOR WEDNESDAY

Wednesday, November 10, 2021

- 4:00 to 5:30 Registration – Check-in at Front Office
- 5:30 to 6:30 Dinner – Dining Hall
- 7:00 to 8:15 Welcome / Focus Topic Presentation – Oak View Lawn
- ❖ Please gather by 6:50
 - ❖ Bring Focus Topic Question, Paper, and Pencils
 - ❖ Bring something to sit on and a flashlight/headlamp
- 8:30 to 10:00 Night Hike and Social Time – Snack Shop
Ministry Intro (optional) – Oak Chapel
- 10:00 Report to Dorms
- 10:30 Lights Out

Thank You to the 2021 San Bernardino Forestry Challenge Volunteers

Without volunteers, the Forestry Challenge simply wouldn't happen.
Here are the individuals who gave their time and expertise for this event:

Anna Woodall
April Karlinsky
Bob Broderick
Damian Giles
Dan Cullinane
David Haas
Elizabeth Franck
Erin Snyder
Ian McBride
John Nicoles
Jon Cartwright

Kathleen Edwards
Nishita Dashpute
Pat Foy
Priscilla Soto
Raine Zulueta
Ruby Gonzalez
Samantha Conn
Shari Tindall
Steve Whitehorn
Tirza Ulloa
Travis Eastern

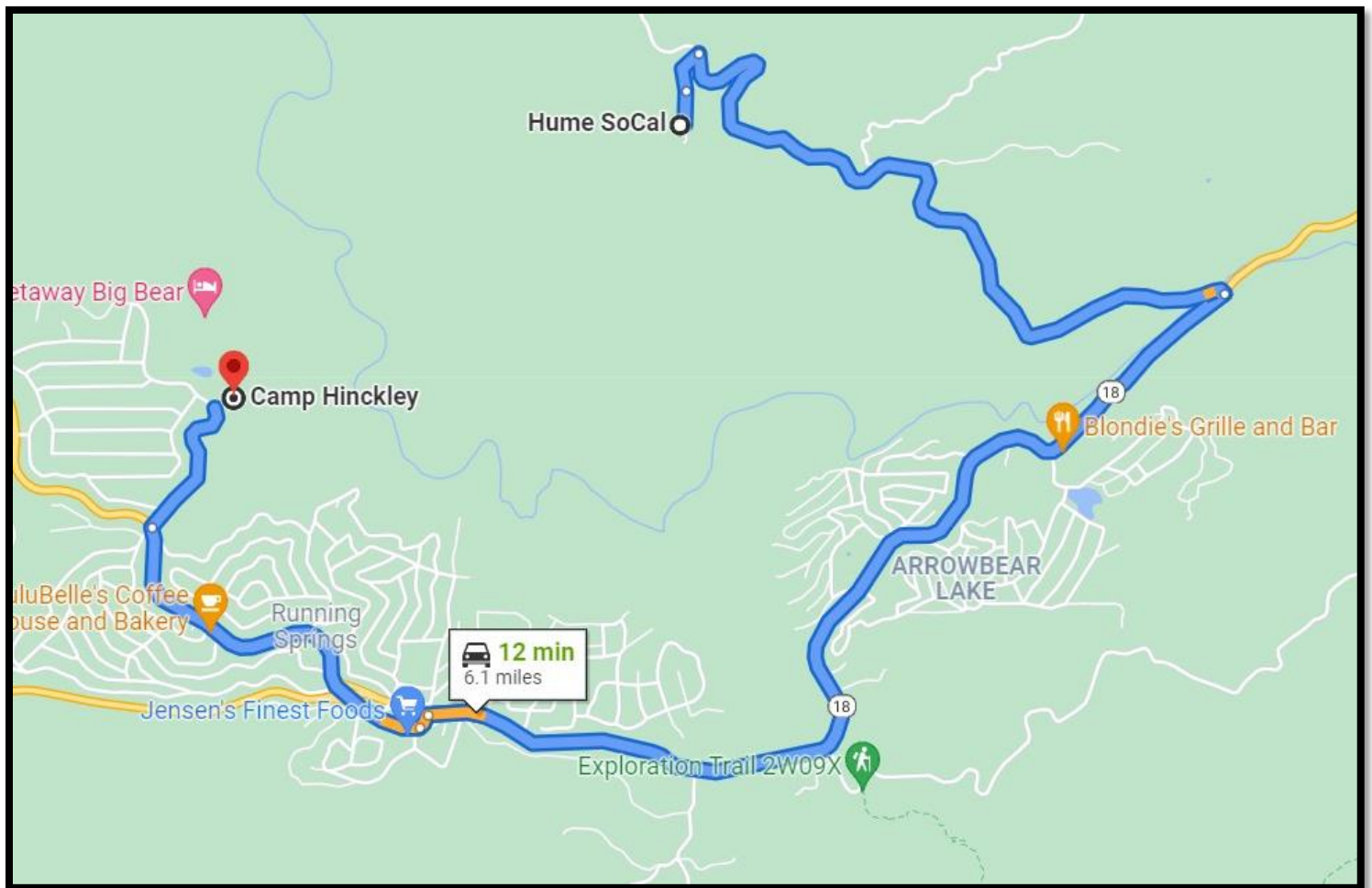
Directions to Data Collection Site

The Data Collection Site Address is:

Camp Hinckley, 2103 Wilderness Rd, Running Springs, CA

From Hume SoCal Entrance:

- Head south on Green Valley Lake Rd for 1.9 miles
- Turn right onto CA-18 and continue for 2.6 miles
- Continue onto CA-330 – follow signs for Lake Arrowhead back to CA-18
- Turn right onto Wilderness Rd and continue for 0.4 miles
- Camp Hinckley's entrance will be on the right



EXPANDED SCHEDULE FOR THURSDAY

Thursday, November 11, 2021

- 8:00 to 8:45 Breakfast – Dining Hall
- 8:45 to 8:55 Field Training Introduction
- ❖ Gather on lawn in front of Dining Hall
 - ❖ See Training Rotation Schedule for list of what to bring
- 9:05 to 12:00 Field Training
- 12:00 to 1:00 Lunch
- 1:00 Gather for Data Collection in Parking Lot behind Welcome Center
- 1:00 to 1:30 Travel to Camp Hinckley
- 1:30 to 4:30 Data Collection
- 4:30 to 4:45 Load Buses
- 5:00 to 5:15 Arrive back at Hume SoCal
- 5:30 to 6:30 Dinner – Dining Hall
- 6:30 to 6:45 Dinner Clean Up / Work Time Prep
- 7:00 to 10:30 Teams Prepare Presentations – Dining Hall
- ❖ Laptops available for loan if needed
 - ❖ Students should not leave Dining Hall except for Ask a Forester appointments
- 7:20 to 9:45 “Ask a Forester” appointments – around Dining Hall
- 10:45 Report to Dorms
- 11:00 Lights out

THURSDAY A.M. FIELD TRAINING ROTATION SCHEDULE

We will have two training tracks, A & B, that your team(s) will divide between. Try to split each team as evenly as possible between the two training tracks. The tracks are as follows:

Training Track A	9:05 - 9:45	9:50 - 10:30	10:35 - 11:15	11:20 - 12:00
CA Forest Types, Tree ID, Species Composition	Teams 1 – 5	Teams 15 – 18	Teams 10 – 14	Teams 6 – 9
Dichotomous Plant Keys	Teams 6 – 9	Teams 1 – 5	Teams 15 – 18	Teams 10 – 14
Densitometer Increment Borer	Teams 10 – 14	Teams 6 – 9	Teams 1 – 5	Teams 15 – 18
Volume and Market Values, Logging Methods	Teams 15 – 18	Teams 10 – 14	Teams 6 – 9	Teams 1 – 5

Training Track B	9:05 - 9:45	9:50 - 10:30	10:35 - 11:15	11:20 - 12:00
Diameter Tape Clinometer	Teams 1 – 5	Teams 15 – 18	Teams 10 – 14	Teams 6 – 9
Angle Gauge Limiting Distance Table	Teams 6 – 9	Teams 1 – 5	Teams 15 – 18	Teams 10 – 14
Compass and Pacing Tech – Plot Hound	Teams 10 – 14	Teams 6 – 9	Teams 1 – 5	Teams 15 – 18
Maps	Teams 15 – 18	Teams 10 – 14	Teams 6 – 9	Teams 1 – 5

- Teams should assemble in the parking lot no later than 8:50.
- Training schedules will be handed out at breakfast.
- Training Worksheets will be handed out just prior to training.
- Wear long pants and close-toed shoes.
- Bring your clipboard, training worksheet, pencil(s), and calculator.
- You may bring study materials and paper with you for taking notes.

2021 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

Friday During Free Time - Pacing Contest:

The goal of this contest is to pace a 66-foot distance (one chain) without the use of any measuring device. To practice for this contest, mark a 66-foot distance on a sidewalk or parking lot. 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. Note: you will need to know how to do this anyway for the field test.

Each school will be given two pin flags marked with their school name. Each school gets one entry, and the students will work without assistance from their teachers. The school that can pace a distance closest to 66 feet (either over or under 66 feet) wins the contest and takes possession of the coveted “board foot” perpetual trophy.

Forestry Challenge Scholarship Program

Redwood Empire, a division of Pacific States Industries and the Burch Family, and the Los Angeles Hardwood Lumberman’s Club award scholarships to assist students who plan to obtain a college degree in Forestry and participated in one or more Forestry Challenge events. Recipients must be enrolled in a program that leads to a degree in Forestry or a closely related field. The 2021 recipients are Maddie Washburn, a Ponderosa High School graduate attending Oregon State University, Autumn Pecarovich, a Minarets High School graduate attending Humboldt State University, and Nishita Dashpute, a Charter Oak High School graduate attending University of California at Berkeley.



EXPANDED SCHEDULE FOR FRIDAY

Friday, November 12, 2021

Time	
8:00 to 9:00	Breakfast
9:00 to 9:25	Gather for Field Testing and Travel to Testing Stations
9:30 to 12:00	Field Testing
12:00 to 1:00	Lunch
1:00 to 2:00	School / Group Photos and Pacing Contest Test Keys handed out and reviewed
2:00 to 5:00	Organized Activities / Free Time Zip line, ropes course, etc.
5:30 to 6:30	Dinner
6:45 to 9:30	Teams Finish Preparing Presentations – Dining Hall At 9:30 all teams must turn in their laptops and presentations
9:30 to 10:15	Evening Social Time / Night Hike
10:30	Report to Cabins

FRIDAY FIELD TESTING ROTATION SCHEDULE

Morning

Time Station	9:30 to 10:05	10:10 to 10:45	10:50 to 11:25	11:30 to 12:05
Cliff	Teams 1 – 5	Teams 15 – 18	Teams 10 – 14	Teams 6 – 9
Volleyball	Teams 6 – 9	Teams 1 – 5	Teams 15 – 18	Teams 10 – 14
Tire Swing	Teams 10 – 14	Teams 6 – 9	Teams 1 – 5	Teams 15 – 18
Zip Line	Teams 15 – 18	Teams 10 – 14	Teams 6 – 9	Teams 1 – 5

Important Information about Field Testing:

- * Testing stations will be 35 minutes each with 5-minute rotations in between.
- * 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 return all tools before moving to the next testing station.

At the end of all testing, one Test Key will be provided for each school for review, and participants will have an opportunity to revisit the stations if there are any questions. The test keys will be due back Friday at 9:30 p.m.

EXPANDED SCHEDULE FOR SATURDAY

Saturday, November 13, 2021

- 8:15 to 9:00 Breakfast – Dining Hall
- 8:15 to 9:00 Judges Orientation – Picnic Tables outside Dining Hall
❖ For Judges and Presentation facilitators only
- 9:15 to 11:10 ALL TEAMS – Report to Dining Hall OR first round of presentations
❖ Room assignments distributed Friday evening
❖ All teams must turn in press releases, thank you notes, and evaluation forms before leaving Dining Hall
- 11:20 to 11:45 Judging Panel Feedback to Students – Oak View Lawn
- 11:45 to 12:00 Awards – Oak View Lawn
- 12:00 Lunch and Farewell

Notes:

- * If your presentation time is not suitable, you are free to trade with another team if both agree. Just let Diane know.
- * 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 and a presentation facilitator.
- * The presentation facilitator will start timing when the presentation begins and show a 5 and a 1 minute warning card.
- * The facilitator will stop the presentation when time is up, even if the team is not finished.
- * The facilitator will time the 5-minute question and answer period, with a 1 minute warning.
- * Teams are encouraged to give their presentation at school and in the community.
- * All teams will attend a review session at the Chapel from 11:20 to 11:45, where the judges will provide feedback to the teams, after which the awards will be presented.

A Note about Our Sponsors:

In addition to the sponsors on the front cover of this booklet, many more companies, organizations, and individuals contributed. They are:

Campbell Global
Crane Mills
Frank Losekoot

Matt Waverly
Ruth Cox
Sierra Resource Management

