

2020 Clark Public Utilities Solar Car Challenge Teacher Tips and Best Practices

Prior to Challenge

- Send supplemental documents to parent/guardian
 - Map
 - Event Schedule
 - Team Number
 - First Round Bracket Schedule
- Go over qualification checklist (pages 60, 61 and 61 in the Teacher and Judging Guide)
- Prepare your team for interview questions (page 65 in Teacher and Judging Guide)
- Be sure students have packed team posters and all engineering notebooks to bring to the challenge.
- Pack a kit of supplies/materials for emergency repairs.
- **Pizza will be served to participating students and coaches only.** Students/Teachers will receive pizza tickets upon registration.
- If you are requesting a stipend complete and submit paperwork, prior to the day of the challenge, to Zack Sippel at CE: zsippel@b-e-f.org

Intramural Races

- Refer to page 35 and 36 in your Activity and Judging Guide for suggestions on how to set up conditions for the race
- Refer to page 56 to 71 in your Activity and Judging Guide for judging criteria
- These should be held as close to the race as possible to provide students enough time to engage in the engineering design process – cars should be race ready

Engineering Notebooks

- Create a rubric relevant to your classroom goals or borrow the rubric on page 63 in the Activity and Judging Guide to review and score student engineering notebooks
- Build classroom activities around student engagement in the engineering notebooks
- Review student progress on engineering notebooks and select students that have the most detailed notebooks

Mock Interviews

- Create a rubric relevant to your classroom goals or borrow the rubric on page 64 in the Activity and Judging Guide to score student interviews
- Prepare students with interview questions on page 65 in the Activity and Judging Guide
- Invite school volunteers to support students in prepping for interviews (great option if you have a steady group of volunteers)

Day of Challenge

- Each team **MUST** have an adult chaperone. There will be separate packets for individual teams and a separate teacher packet for each coach.
- Team chaperone will check in at registration desk to receive team packet and competition information.
- Teams should meet up at the table inside the commons where their team number is posted.
 - Set up poster and engineering notebooks
 - Teams must get car qualified to race
 - Teams should complete interview judging
 - Visit repair station if needed
 - Remove/hold batteries from car when not racing
- There will be a Solar Car Challenge website and TV screens displaying the live bracket movement. Prep students to be aware of their next race.
- **View Race Brackets Online**
 - **Competition Bracket**
 - <http://b.link/sccbracket>
 - **LIVE Track A**
 - <http://b.link/trackA>
 - **LIVE Track B**
 - <http://b.link/trackB>
- If a team misses a race, it counts as a loss.
- Encourage students to bring a water bottle and snacks.
- Bring materials to pass the time.
 - Board games
 - Cards
 - Classroom assignments
 - Books
 - Journals
- Bring a camera and have students document their experience.