**Daily Lesson Plan - 4/1**

Week 4

Day 1 - Car Testing week

Car Design & Public Relations/Sponsorship planning Week

Task Sheets (to review roles) Lesson 1 /3

Review Lesson Plan 4 - testing sesson on page 44 of this link.

Print outs of page numbers below: <http://www.nhra.net/YES/Lesson%20Plans/GADD-Focus-on-Teamwork-Careers-and-STEM.pdf>

Materials Needed:

Computer with access to Internet may be needed as well as color printer

Timing sheets (40)

Sample Drag Racing Ladder (18)

GADD track lay-out (20)

Materials to create Team Presentation Boards (Public Relations Specialists)

Length of Lesson:This lesson may be all week as students work in several areas: 1) testing cars for speed and 2) allowing race officials to practice running, starting and calling racetimes and winners, 3) finalizing car design and publicizing the GADD event.

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| **Minutes** | **Activity** |
| *Guidance* | *This week is the final week before the Great American Derby Day. Several activities are happening this week.*  *Mechanical: Car testing & Engineering*  *Raceway: Race practice - to practice timing, announcing -- a “dry run” before the day of GADD.*  *Publicity: Reporter and team Public Relations are publicizing teams and the events. Artists are working with the Publicity teams to be sure logos, sponsors, and teams are branded properly.*  *Sponsorship: IF you’ve chosen to include sponsorship and fundraising, this is the week that these areas are finalized. These could be on a team t-shirt, a poster, or on the car itself. In week 3 your students decided if they were planning to do sponsorship as a fundraiser and how that fundraising would work.* |
| Introduction  5 minutes | This is the week that we are finalizing our cars, testing them for peak performance. We’ll also be testing out the track and our Track Officials will make some decisions about how the day will run.  In addition, this is also the week that we are promoting our Great American Derby Day to the school with flyers, announcements and invitations. P/R people, artists and our track reporter will work together.  Finally, the artists will need access to cars (while they are not being tested) to finish our car designs.  Even though today (Day 1) you’ll meet with your team, the rest of the week you will meet with members of other groups. On the board (or flip charts) will be the assignments for the week. Those three areas are below: |
| Flip Chart One  Mechanics, Drivers,  Crew Chiefs | Drivers, Mechanics, Crew Chiefs  Review principles of aerodynamics, lift and weight (science section 26-39) <http://www.nhra.net/YES/Lesson%20Plans/GADD-Focus-on-Teamwork-Careers-and-STEM.pdf>  Work with experts to test dragsters and improve performance  Mechanics and Drivers collaborate to identify best methods to race dragster  Work with Racing Officials to insure timing is accurate and winners are determined fairly. |
| Flip Chart Two  Racing Officials | Race Official, Official Starter, Finish Line Official  Review roles/task list (see lesson 1 /3)  Set up track or suitable location to test dragsters for speed and performance.  Review rules (see lesson 1 /3) with Drivers who test  Practice starts and calling the race/time. If two cars race, practice calling winner.  Race Official, determine all will be ready for Derby Day. Secure volunteers to help with set up if necessary. |
| Flip Chart Three  Publicity & Sponsorship | Public Relations Specialists, Reporter/Media Specialist, Artists  Review roles/task list (see lesson 1 /3)  Finalize Team Presentation Board with Artist  Determine publicity for Great American Derby Day to the wider school and to any employer “stakeholders”.  Work with Artists to create flyers announcement for the event and to promote individual teams  Reporter/Media Specialist should work with social media, school yearbook, school newspaper and school TV in promotion  Artists work with PR and Reporter to create flyers, announcements and invitations to GADD.  Finalize the look of the team car. If team has secured sponsorships, then artists can use “wrap” technology to design and place logos onto the team car. If you have purchased Aeroracers, resources are provided so cars can be “wrapped” with logos. Here is the link: <https://aeroracers.com/what-is-a-wrap> |
| Review/Preview | Today we met as a team to set our goals for our PBL. At least once a week Crew Chiefs will meet the team and periodically they will meet with me to report on progress. |