

2019 Pacifica District Pinewood Derby INFORMATION & RULES

Below you will find the rules, specifications, and basic information on how the race is run. You will receive more detailed information and building instructions inside each model car kit.

1. Only Registered Cub Scouts who have been active over the last three months (unless they have recently joined the pack as a new scout) may participate in the official race. Siblings and parents may participate in the “Family Fun Race”, time permitting.
2. The official registration of cars will take place on Friday night between 5:30 – 6:30 PM at the Scout House. **ALL CARS MUST BE REGISTERED ON THIS DATE!!! THERE WILL BE NO REGISTRATION ON RACE DAY.** Any alternative arrangements must be made **prior** to the registration event.
3. After the car is registered, the race officials will maintain possession of the cars until the race.
4. Please plan to be on site at the museum prior to the race start time. The race start time are TBD (as of 12/14/2018).
5. Before the race begins, the race officials will have all the cars placed on tables by rank and/or den. No one may touch the cars until they are called to race.
6. If a race car breaks during the race, repairs only may be made, under race official supervision. **NO MODIFICATIONS OR LUBRICATION MAY BE APPLIED AFTER REGISTRATION.**
7. The boys will race by rank (Tigers will race Tigers, Wolves will race Wolves, etc.).
8. Boys must be present and **WEARING THEIR SCOUT UNIFORM** to race their cars. If a boy is unable to attend, prior approval by your Den Leader AND race staff is required for someone to race another boy’s car.
9. Scouts will be called forward by rank to race in groups of 4 to 6, and will place their own car on the racetrack.
10. Each car will race a minimum of three times on different lanes. The car with the fastest time will be declared the first-place winner for his rank.
11. The car with the second fastest time will be awarded second place and the car with the third fastest time will be awarded third place. Awards will be presented for first through third place. All registered participants will receive a Pinewood Derby Patch.
12. For ranks whose total number of racers exceeds six cars, all cars from that rank will race in groups of six and will alternate lanes between races for three races for each group of six cars (or less) up to the number of rank racers.
13. Each rank’s first place winner will have an opportunity to race at the District competition. If the first-place winner cannot or does not want to attend the district event, the opportunity will be extended to the 2nd place, and so forth.
14. A final “race off” among the winners from each rank will be held to determine the overall pack champion. The rank winners will race at least 3 times on different lanes and the fastest time will determine overall Pack champion.
15. Ties are rare but do happen occasionally, due to their rarity however ties will simply be ties. There is no need or requirement for a race off. If another trophy needs to be awarded – then we will procure another trophy and present the trophies at the next pack meeting.
16. Parents are responsible for monitoring their children during the race.

The Pack Leadership reserves the right to change the procedures and rules as necessary, and Pack Leadership has the final decision-making authority on all issues.

2019 - Pacifica District Pinewood Derby Rules

1. **Please READ these rules COMPLETELY.** If you do not understand something, contact your cubmaster to get clarification. These rules match the Pacifica District's Pinewood Derby rules. If you follow these rules, win or lose your scout will be happier than if you don't and try to get past the race officials at either the Pack or District race. **Cars that do not meet the guidelines** outlined in these rules will either not race or will be put into an 'open' class that is not eligible for the grand champion race or moving on to the Pacifica District's race.
2. **The spirit of these rules is to provide a level playing field for all. Any deviations not covered in these rules will be reviewed by the race officials and if they determine that the modifications represent an advantage that is against the intent of these rules but is not specifically called out in these rules then the car in question will race in the open class.**
3. **ONLY** materials from the standard Boy Scouts of America "Official Grand Prix Pinewood Derby" kit are to be used.
*****NOTE: Aftermarket non-official kits with solid axles + hubcaps & non-official wheels (sold at Michaels, etc) will not be allowed to compete. This is to assure your car is technically compliant with the District Race, which winners of each Rank will be invited to compete in.**
4. Axles and wheels must be those provided in the "Official Grand Prix Pinewood Derby" kit. No aftermarket or non-official "race" wheels will be allowed. No modifications of ANY KIND are allowed of the axles. They cannot be polished; the flashing or burrs and other imperfections cannot be removed. If there is something wrong with the wheels or axles provided in your kit, replacement wheels can be obtained by contacting the Cubmaster. **This is to ensure we are matching the District's rules for their race since our race feeds that race which specifically state EXACTLY the same thing. The race officials may remove an axle to inspect that no changes have been made.**
5. **Wheel tread must not be altered or reduced. Slight burrs may be removed and lightly sanded only. No other alterations are allowed. Wheels and/or hubs may not be altered, sanded or ground to a sharp edge. They may not be hollowed, tapered or drilled out.** No loose materials of any kind are allowed in the car construction. The pinewood of the car may be hollowed and weights can be added to the allowable overall car weight limit provided they are secured and immobile. It is highly recommended to not place weights on the bottom of the car – see 15E. below for the reason.

6. **All four car wheels must touch the track at the same time, and support the vehicle. Axles must be installed straight so that as much of the flat section of the wheel is in contact with the track as possible. Angled wheels are not allowed. Freewheeling wheels are not allowed. While we understand it is challenging to get this right and we not looking for perfection – wheels that have no resistance when at least three are touching flat on the track will need to be fixed before they can be checked in.**
7. **The wheelbase of the car (defined as the dimension from the centerline of the rear axle to the centerline of the front axle) must be between 4.25” and 4.5”**
8. **Dry lubricants (like graphite) are the only lubricants that are allowed.**
9. No wheel bearings, washers, bushings, hubcaps or wet lubricants are permitted. The car shall not ride on springs. All car wheels will be test-spun by the inspectors and any excess lubricant must be removed.
10. Cars must be free-wheeling with no starting or propulsion devices of any kind allowed. Cars will start by gravity from a standstill position. No cars containing magnets or magnetized parts will be allowed to race. The entire car’s structure must be behind the starting line when resting on the starting dowel. **Inverted V bumpers and other designs that allow part of the car to extend beyond the starting point will be disqualified.**
11. Details, such as steering wheel and driver are permissible as long as these details do not exceed the maximum length, width, height and weight specifications, and are securely attached to the car.
12. Each car must pass inspection by the official inspection committee before it may compete.
13. If the car fails the inspection, time will be given to make the necessary adjustments.
14. The official inspection committee’s scale and measurements are final.
15. Only Registered Cub Scouts may participate in the official race. Siblings and parents may participate in the “Family Fun Race”, time permitting.
16. Pack 773 Race Inspector shall resolve any issues not covered by these rules.
17. **Car Specifications:**
 - a. Maximum Weight: 5.00 ounces
 - b. Maximum Width (including wheels): 2.75”
 - c. Maximum Length: 7.00”
 - d. **Maximum Height: 3.00” (track surface to top of car); This is mainly to make sure the car does not impact the top of the laser gate timer at the end of the track.**
 - e. Minimum Clearance: 0.375” (bottom of the car to the bottom of the wheels)

Please note that the track has a center guide rail that sits between the right and left wheels under the car so if making the car narrower be careful in moving the right and left wheels too much closer together has a risk that it won’t fit on the track.