

1. General Rules

- a. Parents are asked to adhere to the ***INTENT*** of the Pinewood Derby rules when constructing cars. Guardians are encouraged to work with your Scout during the construction process, allowing the Scout to do as much of the work as safe and realistically possible based on age and skill level.
- b. Participants and observers are expected to be ***respectful*** and ***conduct*** themselves according to the Scout Oath and Laws during competition.
- c. Cars must be constructed from new car kits; parts (or cars) from previous year(s) ***MAY NOT*** be used.
- d. A car kit shall consist of four wheels, four axles, and an all wood body. Official Pinewood Derby Accessories may be purchased separately, but are not required to compete.
- e. Wheel bearings, washers and bushings are prohibited. The car ***SHALL NOT*** ride on springs. The car ***MUST*** ride on all 4 wheels. Only official Cub Scout Grand Prix Pinewood Derby wheels and axles are permitted. The ***ONLY*** alteration of the wheels or axles allowed is that burrs can be removed.
- f. Use of solid axles or non BSA wheels (Pinewood wheels, etc.) shall be grounds for disqualification.
- g. ***NO*** dry lubricant is permitted on the day of the race, but may be used prior to weigh-in and impoundment
- h. The car ***MUST*** be free-wheeling, with no starting devices.
- i. Details such as steering wheel(s) and driver are permissible, so long as these details ***DO NOT*** exceed the maximum length, width, and weight specifications.
- j. Each car ***MUST*** pass inspection by the official Inspection Committee before it may compete. If a car does ***NOT*** pass inspection, the owner will be informed of the reason for failure, and will be given time within the official weigh-in period to make any necessary adjustments / corrections.
- k. Cars that do not pass inspection prior to the end of the weigh-in period, or are brought in after the weigh-in period will be disqualified and ***WILL NOT*** be allowed to participate on race day.
- l. After each car has passed inspection and weigh-in, it will be impounded and placed into storage containers to be kept by the Race Officials until race day & time. ***NO EXCEPTIONS.***
- m. The scales supplied by Pack 3177 shall be the official weight device for the Pinewood Derby and shall always govern. Note: US Postal Service scales may be used to judge progress toward weight; although these scales are not official, they provide a good indication of your status during the construction process.
- n. The official Cub Scout Grand Prix Pinewood Derby measuring template shall be the official measuring device, ***NO EXCEPTIONS.***
- o. Repairs: in the event a car's wheel, or exterior components come off during competition, the race marshals will attempt to repair the car to the best of their ability so long as it does not impact the length of the race. If the car's repair requires tools, or adhesives, the car will be run as is until eliminated.
- p. A single scout may enter only ONE (1) car for competition duplicate cars are not allowed under any circumstances.
- q. Leaders and siblings that compete in the "special" races must pass inspection / meet same standards as all other cars.

2. Finished Car Specifications

- a. The finished Pinewood Derby racer will adhere to the following specifications:
  - i. Width: 2 ¾ " – may be wider or narrower provided the wheel base measurements and axle hole locations are not moved or modified in any way
  - ii. Length: 7 " - may be shorter or longer provided existing wheel base measurements and axle hole locations are not moved or modified in any way. Cars will be measured against official Pinewood Derby spacing templates.
  - iii. Weight: 5 ounces - shall not be exceeded, but car may be lighter if desired
  - iv. Bottom clearance: the official Pack 3177 Pinewood Derby Track has ¼" track guides for the wheels, but has no center rail. If car weights are added to the bottom of a finished car, they should clear the bed of the track lanes by ¼ - 3/8 of an inch.
  - v. Weights: Internal or external weights may be added to bring the car's total weight up to the 5 ounce maximum. Any weights added to the cars must be solidly affixed to the body. No moving or sliding weights are allowed.
  - vi. Notching: notching of the front of the car is permitted so long as this does not give the car a starting advantage. If the car's front end moves forward of the other cars (in front of the starting gate), then the car will be run in REVERSE. If the car can not be run in reverse it will be disqualified unless it can be modified to run legally.
  - vii. Exterior Finish: the car may be finished or unfinished in any manor so desired by the Scout. The car may be unsanded or sanded, painted or stained, varnished or bare. Cars must be appropriate for Scouting, no vulgar or inappropriate designs, paint or decorations will be allowed. Racing of an unfinished block is permitted provided the car meets all weight and dimensional requirements as outlined in this document.

3. Race Overview

- a. Heats: individual heats will be run by Rank (Tiger, Wolf, Bear, etc.), with the top 2 fastest times moving on to the finals. Top 2 Scouts will receive a small prize for winning their heats.
- b. Finals: all Ranks run against each other with the top 3 fastest cars by time receiving 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> place trophies or medals. The top 3 cars are invited to participate in the District Pinewood Derby races. Entry fee will be paid by the Pack.

4. Prizes & Awards

- a. Fastest Heat Times: top 2 Scouts in any Rank Heat will receive a small prize (candy or similar)
- b. Fastest Final Times: top 3 Scouts in the Finals races will receive a trophy or medal for 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> place
- c. Best Design: Best Design in each Rank group will be chosen by an impartial panel of judges, winners will receive a medal. Only one winner per Rank group
- d. Fastest Den / Patrol from Leader's race will receive the "traveling" trophy for the year
- e. All Participants: Will receive a Pinewood Derby License and a wooden display base for their car