

Pinewood Derby Rules - Valley District

Finished cars can weigh no more than 5 ounces. We will have some light duty shop tools at the race in case you need some last minute corrections. For example...using Lego parts for people riding in the cars and such is acceptable.

- Cars must be the Official BSA Pinewood Derby Kit Available at the Scout Shop
- -7" long or less
- -Width of car is a maximum of 2 3/4"
- -Wheel width must be 1 3/4"
- -Wheelbase (distance between the axles) must be 4 1/4"

1. Ground Rules and Competition

- A. You MUST use the Official Cub Scout Grand Prix Pinewood Derby car kit. The provided kit body, wheels, and nails (axels) must be the minimum components used for the construction of the car. You MUST use the pre-cut location of the axles. Only dry powder lubrication maybe used.
- B. Each scout may enter only one (1) car in the official competition.
- C. The car must have been built during the current year (the school year in which the Derby is held). Cars that have competed in a previous year are not permitted.
- D. If a car jumps the track, the race will be run again. If the same care jumps the track a second time, and does not interfere with its neighboring car, the race will count. If the car interferes with its neighboring car, at the discretion of the Race Official(s), the car will be eliminated from that heat (and given a "did not finish" [DNF] time) and the race will be run again.
- E. If a car becomes damaged and can be repaired in a reasonable amount of time (a few minutes), the race will be run again. If not, the damaged care will be eliminated from that heat and given a DNF time.
- F. All rulings by the Race Marshal and racing staff are final.

2. Car Length, Width and Clearance

- A. The maximum overall width (including wheels and axles) shall not exceed 2 3/4 (2.750) inches.
- B. The minimum width between the wheels shall be 1 3/4 (1.750) inches so the car will clear the center guide strip on the track.
- C. The minimum clearance between the bottom of the car and the track surface shall be 3/8 (0.375) inch so the car will clear the center guide strip on the track.





- D. The maximum overall length shall not exceed 7 inches
- E. The wheelbase (distance between the front and rear axles) may not be changed for the kit body distance of 4 1/4 (4.250) inches.

3. Car Weight and Appearance

- A. Weight shall not exceed 5 ounces. The reading of the scale upon surrendering the car for entry will be considered official and final. The car may be hollowed out and built up to the maximum weight by the addition of wood or metal ballast only, provided the material is securely built into the body or firmly affixed to it. No liquids or loose materials of any kind are permitted in or on the car.
- B. Details such as steering wheel, driver, spoiler decals, painting and interior details are permissible as long as these details do not exceed the maximum length, width, weight specifications and do not interfere with racing in any way.
- C. Cars with wet paint will not be accepted.

4. Car Wheels and Axles

- A. Axles (nails) and wheels as provided in the Official Grand Prix Pinewood Derby Kit are ONLY to be used. No third-party wheels will be accepted.
- B. Wheels may be lightly sanded to smooth out molding imperfections on the tread area. This light sanding is the only modification allowed. Beveling, tapering, thin sanding, wafering or lathe turning of the wheels is prohibited.
- C. Axles may not be altered in any way except for polishing. Powdered dry lubricant (white or black) may only be used. NO LIQUID OIL nor GREASE LUBRICANT may be used.
- D. Wheel bearings, washers, bushings and hubcaps are prohibited.
- E. The car shall not ride on any type of springs. The car must be freewheeling, must clear the center guide rail, and not have any starting device or other type of propulsion.

5. Lubrication

- A. Only dry black graphite or white powdered Teflon will be allowed for lubricating the wheels. No liquid or oil/grease lubrication of any kind is permitted.
- B. Lubrication will not be allowed after the car has been weighed in or during the race.

