

Thunderbird District Pinewood Derby Rules

General Rules

1. Only 15 cars per Pack are eligible to participate in the District Derby, cars will be participating in both the speed race and the design contest.
2. Each scout should build their car with adult supervision. Adults should not build cars while a scout just watches.
3. Each car should be built new this Scouting season, from new materials. Please do not recycle last year's fast car, best wheels, etc.
4. Each car must be the same car that qualified at the Pack Derby. No substitutions will be allowed.
5. Each eligible scout will be allowed to register one car.
6. Scouts should be in field uniform and must be present to compete.

Speed Race Rules

1. Maximum width, including tires and axles must not exceed 2 $\frac{3}{4}$ ".
2. Minimum width of the body at the axles should be 1 $\frac{3}{4}$ ".
3. Maximum length may not exceed 7".
4. Maximum height may not exceed 5 $\frac{1}{2}$ ".
5. The car may not exceed five (5) ounces as determined by the scale at the race.
6. Most Pinewood Derby tracks have a $\frac{1}{4}$ " high guide rail. Low hanging weights will often drag on the track. Bottom clearance should be $\frac{3}{8}$ " but will NOT be cause for disqualification.
7. The wheelbase (distance between the axles) must not exceed the distance between the precut axle slots on the standard pinewood block, i.e.: 4 $\frac{3}{8}$ ". Shortening the wheelbase will NOT be permitted.
8. All four wheels must be used and all four must touch the track. No wheel shall ride upon the center guide strip will be allowed.
9. Axles, wheels, and body must be made from the OFFICIAL Cub Scout Grand Prix Pinewood Derby kit. NO store-bought preformed bodies are allowed.
10. The wheels may be lightly sanded or polished to remove bumps and blemishes. They must not be grounded down, grooved, hollowed out, carved, cut, shaved or otherwise redesigned. Original ridges and raised letters (BSA) must still be visible.
11. No magnet, of any type, will be allowed on any speed car.
12. The car may not be constructed or treated in such a way that the track's starting mechanism imparts momentum to the car. For example, this provision disallows cars with sticky substance on the front of the car and protrusions which may catch on the starting pin. No part of the car may extend forward of the starting pin.
13. The wheels should be lubricated with graphite or powdered silicone. Oil and other liquid lubricants are prohibited.
14. Wheel bearings, washers, and bushings are prohibited.
15. The car must not ride on any kind of springs or suspension system, other than a suspension system that is actually carved from the pinewood block.
16. Loose materials are not allowed on the cars.
17. No moving or liquid weights are allowed.

Thunderbird District Pinewood Derby Rules

Derby officials reserve the right to determine a car's eligibility or ineligibility to race if an unfair practice is discovered that is not covered in these rules. The officials' objective is to hold a race that is fair for all scouts. A scout whose car is in violation of the rules will be given the chance, time permitting, to make his car eligible.

There will be one winner from each level of Cub Scouting based on a point system. Each first place winner will receive a trophy while 2nd & 3rd place will receive a medal.

Scouting encourages good sportsmanship. A car will be disqualified if the scout or parents display unsportsmanlike conduct at the race site. Remember, the object is for all the scouts to have a great time!

Design Contest Rules/Categories

1. We'll be rewarding the Scout's modeling skills, not the parents' skills.
2. Must meet the same race criteria. Only the car itself will be allowed on the judging table; add-ons, displays, and stands will not be permitted at the District Derby.
3. The three (3) design categories judges will use are:
 - a. Originality: how much creative thought went into the design
 - b. Craftsmanship: how much work actually went into making the car
 - c. Scout Participation: does the craftsmanship represent the Scout's work

There will be a trophy for the Overall Best in Show while 2nd & 3rd place will receive a medal.