



GROUND RULES

1. The Pinewood Derby is open to any child from Kindergarten through 5th grades.
2. Your car must have been made for this year's race.
3. Store bought or professionally made cars are prohibited.
4. Scouts are encouraged to do most of the work on the car.
5. A Scout who is unable to enter a car in his or her own age group may enter in the older age groups, but not younger.
6. A Scout, who cannot be present during the race may have their car entered by a friend as a proxy.
7. Scouts may only enter one car in one age group per day.
8. There is no room in Scouting for unsportsmanlike conduct. If you cannot act according to the Cub Scout Oath, you will be disqualified.
9. If you have any questions about the rules, contact your Pinewood Derby Coordinator via phone/email or ask at the practice session.

SPEED, DESIGN & CRAFTSMANSHIP TIPS

SPEED:

Three most important factors

1. **Weight**—must be as close to 5 oz as possible.
2. **Friction**—polish and lubricate the axles with powdered graphite to reduce wheel friction.
3. **Alignment**—make sure the wheels are aligned so the car rolls straight along the floor.

Wheels & Axles

1. Only the official BSA wheels and axles can be used. PLEASE NOTE: Wheels cannot be weighted, shaved, or modified. Wheels can be lightly sanded to take out burrs or ridges, but they cannot be ground down or narrowed. The wheel treads must remain flat and retain their full width.
2. The axles can be sanded or polished but wheel bearings, washers, bushings or after-market axles are NOT allowed. BSA axle guards ARE allowed.
3. The car cannot ride on any type of springs.
4. The car cannot have an ignition or no starting device or other propulsion.

Lubrication

1. Only dry powdered lubricants, such as graphite, may be used. (Regular oils and silicone sprays may soften the plastic wheels).
2. Cars may be lubricated before inspection at check in, but not after.

DESIGN & CRAFTSMANSHIP:

Don't forget that there are as many awards for creativity as there are for speed. So have fun creating something unique!

Design Specifications

1. Maximum overall width (including wheels and axles) 2-3/4"
2. Minimum width between wheels (to clear center strip of track) 1-3/4"
3. Minimum clearance between bottom of car and track 3/8 "
4. Maximum length of the car 7" NOTE: many blocks are a little more than 7" long out of the box, so you may need to sand a little off to stay under the 7" maximum.
5. The car may not be in front of the starting line pins.
6. Wheel base (distance between front and rear axles) has no limitation, but must fit in the sizing box.

7. Maximum Weight 5 oz

Weights can be attached to the car, but these must be firmly in place. Weighing available at the practice session. Be sure you can easily remove some of the weights in case your car is too heavy. Don't try to tape or attach your weights to the bottom of the cars, as the racing track has a raised strip down the center. Bottom weights could rub against it and slow or stop the car. Extra weights are sold at the practice session or race day for a nominal price.

Extra car kits, supplies and decals are available for purchase at: Piedmont Scout Service Center, No loaner weights will be available.

PLEASE REVIEW THE RULES: Decisions of the race officials are final. Race Officials reserve the right to inspect all cars before, during, and after competition. **REMEMBER**, the purpose of the Pinewood Derby is to learn good sportsmanship, take pride in your own work, and **MOST IMPORTANTLY, HAVE FUN!**

OPEN TO ALL K- 5TH SCOUTS AND NON-SCOUTS!
MASKS REQUIRED DURING ALL EVENTS