

Cub Scout Pack 528 - Pinewood Derby

Official Rules

I. SCOPE OF THE EVENT

- A. The Cub Scout Pack 528 Pinewood Derby will be open to all registered scouts in Pack 528.
- B. The Pinewood Derby Race Chairman may disqualify any car that is determined to not be in compliance with the spirit of these rules. The Pinewood Derby Race Chairman is the final authority for all rules/specs/eligibility/registration/racing incident issues interpretations and decisions.
- C. Awards will be issued as follows:
 - a. Overall Speed:
 - i. Overall 1st Place: Lowest cumulative time of five fastest heats
 - ii. Overall 2nd Place: Second lowest cumulative time of five fastest heats.
 - iii. Overall 3rd Place: Third lowest cumulative time of five fastest heats.
 - b. Other awards: Other awards may be issued as seen fit by Pack Leadership.
- D. A siblings race will also be held and is open to siblings or members of the same household of all scouts under 12. Pinewood derby kits may be purchased from the Pack (supplies are limited) or from the Scout Shop at the Atlanta Area Service Center. The sibling's race is subject to the same rules as the scouts.

II. CAR

- A. The car must be newly built for the current Cub Scouting year. The car should be substantially built by the Scout. Parental supervision in the construction of the car is encouraged.
- B. The body of the car must be made from the block of wood provided in an official B.S.A. PD Kit (Cat. No. P1622). The wheels must be placed in the slots provided. If a wheel is broken and a new slot is needed, the slot cannot exceed 1/4" from the original position (the original slots are cut at 4 1/2"). Wheels may not be designed to ride upon the guide strip of the track. Loose pieces that can fall off during a race are not permitted. If the front of the car is designed to gain an unfair advantage at the start or interferes with a fair start, the car will be disqualified.
- C. The axles of the car must be from the official B.S.A. PD Kit (Cat. No. P1622) or an official PD wheel replacement kit (Cat. No. P1622A). Axles must be firmly attached to the car. The use of a flexible suspension system of any type is prohibited.
- D. The wheels of the car must be from the official B.S.A. PD Kit (Cat. No. P1622) or an official PD wheel replacement kit (Cat. No. P1622A). Wheels may not be altered in any way. Mold projection defects on wheel treads may be removed by sanding lightly. The wheels may not be sanded to enhance performance. The decorative dots on the wheel treads may not be removed. If wheel sanding is detected the car will be disqualified. The wheels must be attached to the car with the pins provided in the kit. No cars will be accepted in the District PD where bearings, washers, or spacers are used as part of the wheel assembly. The official wheel width is 0.34".
- E. Lubrication - only graphite powder or the new B.S.A. white lube T102/polytetra fluoroethylene may be used to lubricate wheels. (Warning - other lubricants may damage the plastic wheels and keep them from turning freely.) The District PD will NOT provide graphite powder lubricants. Once the car is impounded, it may NOT be relubricated except when the wheel is damaged or becomes dislodged during a race. Graphite must be applied over a trashcan or outside of the building.
- F. The total weight of the car may not exceed 5 ounces. The maximum width of the car, including wheels, may not exceed 2.75 inches. The maximum length of the car may not exceed 7 inches. The motion of the car may not be mechanically aided (motor, springs, rubber bands, etc. are prohibited).
- G. All metallic attached objects that contain lead must be covered with paint or fingernail polish.

III. TRACK

- A. Each car will run once down each lane of the six-lane track during six separate heats.
- B. Places are determined by a computer timer system, which calculates the cumulative time of the five fastest heats for each participant. Note: it does not matter whom you race against. You are racing against the clock.

IV. RACE PROCEDURE

- A. Cars may be raced only by the qualifying Cub Scout. Cars may not be raced by a parent or a stand-in. Proof of registration may be required. Cub Scouts should be dressed in a neat, clean, uniform. A Cub Scout will not be disqualified because he cannot afford a uniform.
- B. At Inspection, his car will be weighed, measured, and inspected to ensure compliance with the above rules.
- C. Only the official scale(s) used at Registration determines weight. Cars will not be accepted if their weight exceeds five (5) ounces by even the smallest resolution of the scale.
- D. A wood, plastic, or metal jig will be used to determine if the car complies with the length and width limitations.
- E. A Cub Scout whose car fails any part of the inspection will be given the opportunity to make adjustments to the car. Cars will be re-weighed, measured, and inspected until they comply or until the scheduled race starting time. Participants are responsible for providing any tools or materials necessary to adjust a car in order to pass Inspection.
- F. After the car has passed Inspection, it will be taken by a race official to the pit table to await the race. Cars may not be handled after inspection until they are scheduled to race.
- G. Cars will be protected from handling by anyone except the race officials and the car owner.
- H. Once a car has passed inspection, no additional lubrication may be applied to the car either before or during a Pinewood Derby.
- I. Each car will run once down each lane of the six-lane track during six separate heats. Places are determined by a computer timer system, which calculates the cumulative time of all six heats for each participant. The slowest time will not be counted. Note: it does not matter whom you race against, as you are racing against the clock.
- J. In the event of a breakdown of a car during the race, the participant will be given five (5) minutes to repair the car. Only the damaged portion of the car may be modified. Work must be done by the Scout with assistance from his parent or guardian. Race officials shall re-inspect any car that is serviced during the race. The Race officials may choose to continue with other race heats in order to avoid long delays in the race. Participants are responsible for providing any tools or materials necessary to fix a car after a breakdown.
- K. In the event of racetrack equipment failure, Pack Leadership may elect to proceed with the race using alternative tracking methods as deemed appropriate for the situation.