



## **Cub Scout Pack 304 2009 Pinewood Derby**

**Takes Place at 1:30pm Saturday, February 7 at Plainfield Christian Church.**

**Weigh-in/registration will be the evening of February 6. All cars must be registered and weighed at the time or they will be ineligible for the race. No exceptions.**

**The official Pinewood Derby Rules must be followed.**

**If you are not going to race please return your unopened kit to a leader.**

### **Inspection and Check-in:**

1. Inspection and check-in will be on Friday, February 6, 2009 from 6:30pm to 8:30pm.
2. All cars must pass inspection during the designated time to be eligible to run on Race Day (February 7, 2009).
3. To pass inspection each car must satisfy all requirements as identified in the Specifications section below.
4. Entries will be secured once they've passed inspection and check-in until the racing begins the following day.

### **Race Day:**

1. The Scout must be present the day of the race or, in the event of sickness or sporting event, another Scout may be designated during check-in to run the car.
2. Each Scout will be able to vote on the best looking or "Coolest Car" prior to the racing competition.
3. Scouts, Adults, and family members may compete in the 4<sup>nd</sup> annual "Open Class Race" immediately following the official Pinewood Derby.

# Cub Scout Pack 304

## Official 2009 Pinewood Derby Rules

**Weigh-in/registration will be Friday evening, February 6. All cars must be registered and weighed at this time or they will be ineligible for the race. NO EXCEPTIONS.**

**Your leader will give you your weigh in time.**

### **SPECIFICATIONS:**

1. Pinewood Derby cars must be constructed from an official BSA Pinewood Derby kit. No Substitution of official Pinewood Derby parts such as wood blocks, wheels or nails is permitted. All functional parts must be from the kit. **No "aftermarket" parts will be allowed and will cause the car to be disqualified.**
2. **Width:** Overall width of the car shall not exceed 2 3/4". Wood may be added to the block to bring the car out to maximum width.
3. **Length:** Overall length of the car shall not exceed 7"
4. **Front:** The car needs to be flat across the middle half of the front. No points or cutouts.
5. **Height and Clearance:** Overall height of the car shall not exceed 3 1/8" When placed on a flat surface the entire bottom of the car must be at least 3/8" from the flat surface.
6. **Weight:** The weight of the car shall not exceed 142 grams (5 ounces). No loose materials of any kind are permitted in or on the car. The scale used at registration is the **OFFICIAL** scale for the Pack #304 race and the cars will be weighed in grams. Cars must be within weight according to this scale. Minor variations due to differing scales used during the car's construction will need to be corrected at check in.
7. **Wheel Base:** The maximum wheel base will not exceed 4 1/2". If the axles must be moved due to problems with the slots cut in the wood block the axles must be within 1/4" of the original slots; i.e if you move the front wheels forward 1/4" the rear wheels must be moved forward an equal distance.
8. Wheel bearings, washers and bushings **are prohibited**.
9. All four wheels **must** touch the track flat.
10. **Axles:** Inserts for axle support are prohibited. Only dry powdered graphite may be used for lubrication.
11. The car may not ride on any kind of springs.
12. No loose materials of any kind are permitted in or on the car.

13. **Details:** Details such as steering wheel, driver, decals, painting, interior detail etc. are permissible and encouraged as long as these details do not exceed the maximum length, width, height and weight specifications.
14. **Attachments:** The car must be freewheeling with no starting devices.
15. **Wheels:** Although burrs and molding marks may be removed from the wheels, there will be no cutting or turning down of the wheels to a point or ridge. Wheels must remain the same width as contained in the official BSA Pinewood Derby kit. Wheels may not be tapered or rounded and the rib located on the outer edge of the wheel may not be removed.
16. **2009 Built Car:** All cars must have been built in the same year they compete and must be completed prior to registration. Entries will be secured until racing begins the following day.
17. **Inspection:** Each car must pass inspection. The inspectors have the right to disqualify those cars that do not meet the specifications outlined above.
18. Races will be by time only. Each racer will run once in all six lanes. There may be phantom cars racing to keep each heat full. The car with the fastest total time in each of the four divisions will be the winner of that division.
19. Finals—Races between division champs will determine the grand champion. The division champs will race each other four times on four different lanes. All champs will run on the same four lanes.
20. The grand champion will be determined by the fastest total time of the finals.
21. If a car jumps off its lane, interferes with opposing cars, or breaks down in any way, the heat will be re-run. If the car gets into trouble a second time or causes a problem a second time, it will forfeit that heat. The other cars will re-run.
22. In the event that a wheel comes off of a car, it may be replaced by a designated judge. The individual racer or racers crew may not replace a wheel.
23. If any item other than a wheel falls off a car during the course of the race, it may not be replaced. **NO EXCEPTIONS!!!**
24. **THE DECISIONS OF OUR JUDGES ARE FINAL!!!!**

**Please note: After a car has been registered, unless otherwise discussed above, no tampering, modifying, adjusting, etc. can take place with the car after check-in. Any car that is tampered with will automatically be disqualified—NO EXCEPTIONS!**

**PLEASE MAKE SURE YOUR CAR IS AS CLOSE TO THE PROPER WEIGHT AS POSSIBLE WHEN YOU CHECK IN!!!**