

2010 Pack 200 Pinewood Derby

Official Rules



Pack 200

2011 Brian Murnen Pinewood Derby

The Pack 200 2011 Brian Murnen Pinewood Derby will be held on Saturday, January 22, 2011 at First United Methodist Church. Pinewood Derby is an activity that can teach the scout many things: How to plan a project, how to work with woodworking tools, how to “*Do Your Best*” and good sportsmanship. The Derby is for the Scouts and they should be the ones in charge of planning and making the cars. It is a good time for the Scout to spend some quality time with an adult and work on their car together.

2011 Pinewood Derby Key Dates

Saturday, January 15, 2011 (TIME TBD)

First United Methodist Church, Room 200

Practice Runs, run your car on the track and get a weight check.

Friday, January 21, 2011 (9:00 pm – ?)

First United Methodist Church Fellowship Hall

Setup for Pinewood Derby

Saturday, January 22, 2011 (8:30 am Start – See Details on next page)

First United Methodist Church Fellowship Hall

2010 Pack 200 Pinewood Derby

March 2011 (TBD – Specific info will be sent to boys who qualify)

Cary Towne Center Mall (near the food court)

Crosswinds District 2011 Pinewood Derby

1st Place Speed, Beauty and Unique Winners from Tigers, Wolves, Bears, and Webelos

12 total cars from the Pack will compete at District.

This is a change from previous years.

2011 Pack 200 Brian Murnen Pinewood Derby

Official Rules



The competition will be divided into three groups: Tigers, Cubs (Wolf / Bear), and Webelos Scouts. Awards will be given for each group in three categories, three places for each of: Most Unique, Most Beautiful, and Speed. Judging for the Most Unique and Most Beautiful categories will be before the Speed competition. Additional Awards may be given by the Derby Officials. Medals and Certificates will be presented at the January Pack Meeting.

Race Day Schedule

Official weigh-in begins at 8:30 am

Staggered registration by rank groups as follows

Scout Level	Registration Start	Registration Stop	Race Start
Cubs (Wolf & Bear)	8:30 AM	9:15 AM	9:30 AM
Tigers	10:45 AM	11:30	11:45 PM
Webelo I & II	1:00 PM	1:45 PM	2:00 PM

Race times are “best estimate”. We have a large number of Scouts and we will try to start each race as listed, but please remain flexible. Registration times are subject to slip. The closing of registration will be announced. Registration will close 15 minutes prior to each group’s race to allow for computer data input of the racer’s information.

NO late check-ins or late arrivals will be allowed to race after the start of each rank’s event. If you are in the registration line by the listed or announced stop time you will be allowed to register. Please try to be on time. No exceptions will be made for late arrivals.

Judging ideas for the Most Unique and Most Beautiful categories:

Beautiful

- Quality of Paint Job
- Quality of Paint Finish
- Quality of Carving
- Etc.

Unique

- Highly Unusual
- Radically Distinctive
- Etc.

2011 Pack 200 Brian Murnen Pinewood Derby *Official Rules*



1. Please read *ALL* the rules carefully and thoroughly. It is the parent's and racer's responsibility to design and build a car conforming to these rules. Cars not meeting these rules will be disqualified.
2. **Only registered Scouts in Class-A uniforms are allowed to register or compete.** A scout may enter only one car. The Scout or their proxy must be present at registration and during the competition to be eligible. Proxies will be allowed for scouts that are sick. Any other reason must be approved by a derby official (Cub Master, Asst. Cub Master, Pack Committee Chairman, or Race Coordinator).
3. The car entered must be built with and function using the materials in an Official Grand Prix Pinewood Derby kit, *including the body block, nail axles, and wheels.* Substitutions are not allowed.
4. The car must be built primarily by the Scout with adult guidance, especially in the use of any power tools.
5. The car shall *not* have been built (whether or not it was run) in any previous Scouting year (refinished or not).
6. The car must be able to run on the track, meet all size and weight requirements, and attempt to complete at least one heat in order to be judged in any of the 3 competition categories. Cars cannot be entered only for consideration in the Beauty or Unique categories. Any car that passed registration and attempted to complete one (1) heat, but was disqualified or withdrew from the speed competition remains eligible for the Most Beautiful and Most Unique competition.
7. The car's dimensions shall not exceed 7 inches in length, 2 $\frac{3}{4}$ inches in width, 4 $\frac{3}{4}$ inches in height, and shall not weigh more than 5.000 ounces. Official weight of the car will be based on the Official Race scale. Weight of the car does not include the weight of the race label that is applied by the Registrar after the weight verification. The width between inside of wheels shall not be less than 1 $\frac{3}{4}$ inches. Bottom clearance (between lowest point on the car and the track) shall not be less than $\frac{3}{8}$ inches. Wheelbase (distance between front and rear axles) may not be altered and must remain 4- $\frac{1}{4}$ inches apart. (some kits may be off between $\frac{1}{8}$ inch to $\frac{1}{4}$ inch)
8. The axle cutout slots provided in the wood block must be used so that the tips of the axles can be visually inspected at registration. The axle slots can be moved forward or backward on the car body as long as the wheelbase distance of 4- $\frac{1}{4}$ inches between slots is maintained. (some kits may be off between $\frac{1}{8}$ inch to $\frac{1}{4}$ inch)
9. No loose materials of any kind are permitted inside or on the car. Any item, decal, detail, or weight that falls off a car during a race may be re-attached by using your one (1) allowed 3-minute repair. This excludes the repair of the official race identification label.
10. Wheel bearings, washers, and bushings on the wheels and/or axels are prohibited.

2011 Pack 200 Brian Murnen Pinewood Derby *Official Rules*

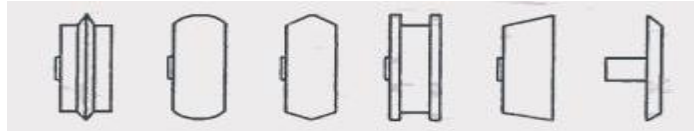


11. Car shall not extend past the starting gate

Note: The starting gate is a dowel coming up from the track that is lowered evenly among the four lanes at the same time. Any attempt to build a car that extends beyond the starting gate dowel will be disallowed.

12. The car may not ride on any type of springs or suspension system.
13. The car must be freewheeling with no starting or propelling devices.
14. Four (4) functioning Official nail axles must be used and may not be plated or coated in any way. Axles must be in the same plane. They may be polished and dry lubricated. The following allowances will be made for machining tolerances associated with the axle installation:
- The “rear” wheels must always be in contact with the track.
- 15. *Dry lubrication must be applied prior to entering the race hall.*** NO graphite or other lubricants will be allowed in the race area and may not be applied after registration or during the race. No wet lubrication of any kind may be used. Handling during registration and inspection will likely cause the car to loose some dry lubricant – this is unavoidably inherent to the inspection process and lubrication cannot be reapplied.
16. The car may be hollowed out and built-up to the prescribed weight by the addition of wood and/or metal, providing all rules are met and additions, including weights, are built into the body chassis.
17. Adding details and accessories is permissible as long as the accessories are decorative (non-functional) and the entire car does not exceed the maximum length, width, height, or weight.
18. Four (4) Official Grand Prix Pinewood Derby wheels must be used. Wheels may not be tapered or rounded. The wheels may be sanded to remove any mold marks, but may not be modified in any other way. Removal of material from the sidewall is prohibited. ONLY BSA APPROVED WHEELS AND AXLES, as provided in the Official Pinewood Derby Kit shall be used. **There are several versions of the Official Pinewood Derby Kit distributed, please see tire chart on last page for acceptable wheels*

2011 Pack 200 Brian Murnen Pinewood Derby *Official Rules*



19. Due to the differences in the 3 variations of the Official wheels, hubcaps are no longer allowed. Hubcaps are PROHIBITED on all cars.
20. Each car must pass inspection, the day of the race. It will be labeled on its top with an entry number before it will be allowed to compete. Once registered, each car will be kept in the impound area and no further modifications, lubrication and/or adjustments will be allowed except to perform repairs as deemed necessary by the Race Coordinator. If, at registration a car does not pass inspection, the owner will be informed of the reason for failure, and will be given time within the official weigh-in time period to make the appropriate adjustments.
21. Once a car has passed inspection and impounded, the car can only be handled by the Scout owner for racing, by the Pit Crew for repairing and by the judges for evaluating design. Cars will not be re-inspected unless the car is damaged in handling or in a race.
22. The speed competition will be judged by a computerized timer system. Each car will run on every lane of the track at least once. The average speed of a car across all heats in which it raced will be used to determine the fastest three cars in each group (Tigers, Cubs, Webelos Scouts). These cars will be deemed the winners of the Speed category.
23. A “heat” is one run down the track by one or more cars. If a car jumps the track, that heat will not be counted for all cars involved. If a car jumps the track twice in the same heat, it will be disqualified from the remainder of the speed competition. The car will still remain eligible for the Most Beautiful and Most Unique categories.
24. If a car does not cross the finish line in its assigned lane two times in one heat, it will be disqualified. The car will still remain eligible for the Most Beautiful and Most Unique categories.
25. If a car or its accessories interferes with any other car (i.e. jumping the track and hitting other cars) more than twice in the race it will be disqualified from the Speed competition. The car will still remain eligible for the Most Beautiful and Most Unique categories.
26. In the event of a breakdown on the track during a heat (e.g. a wheel falls off) a repair time of three (3) minutes will be allowed. All cars will be re-run and previous times for the cars that did finish will be forfeited. The Scout owner and the Pit Crew will make all repairs. Only one 3-minute repair period will be allocated for each car. Any car not able to race and needing subsequent repairs will be disqualified from the Speed competition. The car will still remain eligible for the Most Beautiful and Most Unique categories.
27. The decisions of the Inspection crew, Derby Officials (Cub Master, Asst. Cub Master, Pack Committee Chairman, and Race Coordinator), Judges are final. The Race Coordinator will decide any rule appeals. All decisions will be made in the Spirit of Scouting, fair play, good sportsmanship, and fun.

2011 Pack 200 Brian Murnen Pinewood Derby

Official Rules

 Official BSA wheel identification chart



ORIGINAL WHEEL (FRONT)



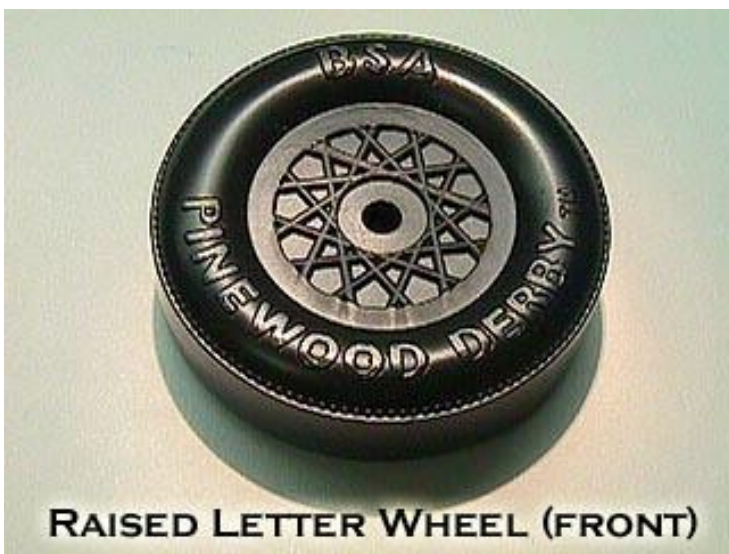
ORIGINAL WHEEL (REAR)



NO LETTERS WHEEL (FRONT)



NO LETTERS WHEEL (REAR)



RAISED LETTER WHEEL (FRONT)



RAISED LETTER WHEEL (REAR)