



Pinewood Derby **“The Mighty Pack 800”**

2007 Race Rules

http://pack800.ocbsa.org/forms_flyers.html

ONLY OFFICAL CUBSCOUTS PINEWOOD DERBY CAR KITS WILL BE USED. PLEASE HELP US AVOID EMBARRASSMENT AND DISAPPOINTMENT BY ADHERING TO THESE RULES. THANKS FOR YOUR COOPERATION.

The annual Pinewood Derby races give the Scouts a chance to build their own car and race it! The Scouts are to design sand and paint their own cars. This is not a project for the parents or other family members!!! We are very serious about this. Each Scout is expected to do 90% of the work himself. The only exception is the actual wood-cutting, which does require adult supervision and assistance.

The Scout should design the car on paper and give the design to an adult for sawing. The Scout must sand and paint the car by himself. Adult help may be needed for adding weights and wheels, but the Scout should still be involved during these procedures.

Our goal is for all the Scouts to gain experience in designing, making and racing their own creation. We want the Scouts to leave the races proud of what they have achieved and eager to do it again next year. Please help your son do HIS best.

Thank you - please come out and enjoy the races!

Cub Scout Pack 800 Pinewood Derby

Where: United Methodist Church, 24442 Moulton Pkwy

When: Saturday, January 20st, 2007

<u>Time</u>	<u>Activity</u>
10:00am	Car registration/inspection/Weigh-in
10:30am	Registration closes, Snack Bar Open
10:45am	Races begin, Sibling Activities Open
1:00am	Races end (approximate time), Clean Up (your help requested)

Judging (Appearance Awards)

As a 6 year-old Scout is much less skilled than a 10 year-old Scout, the cars will be divided upon check-in into groups; Tigers, Wolves, Bears, Webelos, Parent/Siblings. Appearance awards will be judged and awarded to each group independently. Judging will be done between the close of registration and the end of the races. Medals will be awarded to the top 4 cars. Trophies will only be awarded for race winners. Determining the winner of a race is a much more exact science than picking an appearance winner, so awarding trophies based on speed alone provides a fair and nondiscriminatory method to reward scouts. All scouts who enter the Pinewood Derby races will receive a participatory patch for his vest.

THERE WILL BE NO TURTLE RACES. There is no reason to single out the slow cars or risk embarrassment to a scout for his car's poor performance. **We will however have a second track setup for sibling races and 'non-judged' fun races. A trained, adult Scout Leader supervisor will manage the races on this track. See description below.**

Judges will be selected in advance of the race and will be fully apprised of the rules and criteria for appearance awards and our expectations in adhering to them. Of utmost importance in the appearance awards is that the cars will be judged on *what a scout of that age level could reasonably be expected to do by himself*. A perfectly shaped, sanded and beautifully polished car entered by a Tiger is more indicative of a parent's workmanship skill than that of a child's and the car will be judged accordingly. PLEASE LET YOUR CHILD DO HIS OWN WORK, WITH THE EXCEPTION OF THE SAWING, WHICH DOES REQUIRE ADULT SUPERVISION AND ASSISTANCE!!

These rules were crafted with the intention of the fairest competition possible. In the event of a dispute, the decision of the Pinewood Derby Committee Chairperson will be final.

Race Order

- **Tigers**
- **Wolves**
- **Bears**
- **Webelos**
- **Finals**

PROCEDURES OF THE RACE IN OVERVIEW

- (1) An official track will be used.
- (2) Every car must be weighed in, inspected, and registered to be allowed to race.
- (3) Registration and weigh-in will occur just prior to judging for appearance awards and running of car races. Early weigh-in may be arranged by the Race Committee at a designated time before the race day to allow adjustments in order to assure qualification of cars to race, but must be weighed (again) officially at registration. "
- (4) Once a car is registered and officially weighed, it is kept by race officials and IS NOT to be handled by Scouts or parents except for official persons designated and responsible to take it to the track and return it after running each race as directed. No lubricating is allowed after registration.
- (5) Judging of cars for awards other than winning the actual races (such as for design, craftsmanship, etc.) will be done between the time of official weigh-in and the start of races.
- (6) Races will be organized for competition in categories on the basis of Scout rank: Tigers, Wolves, Bears, Webelos, and Parents/Siblings. **Each scout will be given a number for his/her car at the Den meeting prior to the race by a system designed by the racing committee. All racing will refer to the car number and not the scout's name for identification. One possible method will be that each Den will have a unique first number, e.g. Tigers (10,11,12,13,1X), Wolves (20,21,22,2X), Bears (30,31,32,33,3X) and so on. In this way, it will be easy to identify which cars should be racing in each race. Racers will be notified of their personal car numbers prior to the race. No other numbers will be allowed so do not construct your car with a number until you have been assigned one from the committee.**
- (7) Races will be run in heats of two, three, or four cars to competitively determine the fastest cars. Winners will advance to race against winners from other heats to determine overall winners for each category. The number of cars selected to run in the final bracket for first place will depend on the number of tracks; i.e., with 4 tracks, 4 cars per category. After losing once, cars will progress through consolation heats. Each car will run at least two races before being eliminated.

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(8) The fastest (final bracket) cars in each category will also race in the Championship category for overall winner.

AWARDS PRESENTATION

1) First, second, and third place speed awards will be given for each Scout category and the Championship category.

(2) Overall pack appearance awards will also be given, exact awards to be determined by the Pinewood Derby Race Committee. Examples could be Most Creative, Best Craftsmanship, Best Hot Rod Racer, Best Design, Best Paint Job, etc. Appearance award criteria shall be determined by the Pinewood Derby Race Committee prior to the day of the races.

GROUND RULES

(1) The race is open to all Cubs and Webelos Scouts registered in Pack 800.

(2) Only "OFFICIAL CUB SCOUT PINEWOOD DERBY" CAR KITS WILL BE USED! No hobby store kits or any other deviation from the official kits will be allowed. You must use the Cub Scout Pinewood Derby wood, wheels and axles.

(3) Each Scout MUST BUILD and race HIS OWN CAR. Parents, grandparents, uncles, etc. may NOT build the cars for the Scouts! This is to be the Scouts own work.

(4) Cars MUST have been made for this RACE ONLY. Cars made for, or raced in previous races ARE NOT PERMITTED.

(5) The race will be a double elimination conducted according to Scout classification. Winners in each classification will compete for an overall speed award.

(6) If a car jumps off the track, the heat will be run again. If the same car jumps off the track a second time, it will automatically lose the heat.

(7) If a car leaves its lane and interferes with another car, the heat will be run again. If the same car leaves its lane a second time and interferes with another car, the heat will be run again without the interfering car. The interfering car will automatically lose the heat.

(8) If a car suffers a mechanical problem, loses an axle, breaks a wheel, etc., and a repair can be accomplished in a reasonable amount of time, the heat will be run again. If not, the car will automatically lose the heat.

(9) Note: An electronic computer controlled judging system will be used. There will also be three judges at the finish line to ensure no gross errors occur. Two of the three must agree on the winner or the heat will be re-run.

(10) Only race officials and participating Scouts will be permitted into the registration and track area. This rule will be strictly enforced.

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(11) The practice track shall be administered by a trained Adult Leader who will award “2 dots” on the car’s underbelly for a first place win, and “1 dot” for a second place. Racers may race as many times as they wish, against anyone they wish.

Pinewood Derby Specifications:

(1) LENGTH, WIDTH AND CLEARANCE

- A. Maximum overall width (including wheels and axles) shall not exceed 2-3/4 inches.
- B. Minimum width between wheels shall be 1-3/4 inches so car will clear the center guide strip.
- C. Minimum clearance between bottom of car and track shall be 3/8 inch. so car will clear the center guide strip.
- D. Maximum length shall not exceed 7 inches.
- E. The wheelbase (distance between front and rear axles) may be changed.

(2) WEIGHT AND APPEARANCE

- A. Weight shall not exceed 5 ounces. The readings of the Official Race Scale will be considered final.
The car may be hollowed out and built up to a maximum weight by the addition of wood or metal only, provided it is securely built into the body or firmly affixed to it. No loose materials of any kind are permitted in or on the car. Please do not use clay.
- B. Mercury shall not be used for adding weight since it is a potential health hazard.
- C. Details such as steering wheel, driver, spoiler, decals, painting and interior finish are permissible as long as these details do not exceed the maximum length, width and weight specifications.
- D. Cars with wet paint will not be accepted.

(3) WHEELS AND AXLES

- A. Only the Official Cub Scout Pinewood Derby wheels and axles can be used. Axles may be polished. Wheels may be lightly sanded to remove the mold projection on the tread. This light sanding is the only wheel modification allowed. Beveling, tapering, thin sanding, wafering, or lathe turning of the wheels is prohibited.
- B. Wheel bearings, washers, or bushings are prohibited.
- C. The car shall not ride on any type of springs.
- D. The car must be free-wheeling with no starting device or other propulsion.

(4) LUBRICATION

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- A. Only dry powdered lubricants, such as graphite, may be used. Regular oils and silicone sprays may soften the plastic wheels and will not be permitted.
- B. Cars may be lubricated before inspection. No further lubrication will be permitted after registration.

INSPECTION AND WEIGH-IN

- (1) Each car must pass inspection by the Official Inspection Team before it may compete. The Inspection Team has the right to disqualify those which do not meet these rules. Car owners will be informed of the violations and given a reasonable opportunity to modify the car to meet these rules.
- (2) Cars belonging to the family of members of the Official Inspection Team must be weighed in and registered by a non-family member of the Official Inspection Team. Parents may NOT weigh in their own Scout's car.

DISPUTES AND APPEALS

- (1) The Pinewood Derby Race Committee of Pack 800 shall use its best judgment to resolve conflicts or disputes, and its decision will be final. It may also make last minute adjustments to accommodate unforeseen difficulties.
- (2) Any participant (including the parent of a participant) has the right of appeal to the Race Committee for an interpretation of these rules. The Race Committee, by majority vote, will be the final judge of these rules. In case of a tie vote, the decision of the Race Committee Chairperson will be final.
- (3) Ungentlemanly or unsportsmanlike conduct by any participant or member of the audience will be grounds for expulsion from the competition and/or the race area at the direction of the Race Committee Chairperson.

NOTE: OFFICIAL CAR KITS ARE TO BE GIVEN BY PACK 800 TO ALL REGISTERED SCOUTS AS A GIFT FROM THE PACK AT THE DECEMBER PACK MEETING. IF YOU WERE UNABLE TO ATTEND AND YOU HAVE MISSED THIS PACK MEETING, PLEASE CONTACT THE RACE COMMITTEE CHAIRPERSON, OR YOUR DEN LEADER. IF YOU NEED AN ADDITIONAL CAR BECAUSE THE CAR GIVEN TO YOU BY PACK 800 WAS DAMAGED, YOU MUST PURCHASE THE SECOND CAR AT THE LOCAL SCOUT STORE.

END