



Pack 3124

2006 Pinewood Derby



Pinewood Derby Overview

1. Scouts design and build cars with the help of an adult. These are small wooden cars, which must meet certain specifications.
2. The Pack normally uses two tracks on race day. Our newly purchased track has six lanes, is 42 feet long and uses an electronic timer for competitive racing only. This is a managed track, with officials announcing each heat participants and results (using special Pinewood Derby software for race management). All scouts, including Tigers, are eligible for competitive racing.
3. Another track may be available for non-competitive racing only. This will be used for scouts when their division has completed its competitive racing. This track will be supervised but races will be on a fun-only / first come basis and results will not be tracked.
4. Tigers / Wolves / Bears / Webelos are also eligible for design awards in various categories.

Car Building Instructions – Tigers / Wolves / Bears / Webelos I and II:

1. Cars must be designed and built by the scout, with the help of an adult. We will ask boys if they had input into their cars. The car must be newly built for the current Cub Scouting year.
2. Tigers, Wolves, Bears, and Webelos are asked to paint or write with a marker their car number on the side, top, or bottom of their car. If this is missing then we will write with marker the car number on the bottom of the car upon check in. Car numbers are provided on a separate sheet accompanying this document.
3. If a scout is absent at the November pack meeting and wishes to use a pre-cut kit, they may purchase one from a hobby store that matches specifications listed here. In addition, they must purchase an official wheel kit from the Scout store.
4. Only wheel kits obtained at the pack meeting or official BSA wheels from the Scout store are allowed. **NEW this year** – the shape of the wheels may not be changed. For instance, grinding the wheels to make them narrower or altering the surface of the wheel is not allowed. You may lightly sand the seam of the wheel to smooth it off.
5. The axles supplied with the kit must be used. They may be polished or lubricated with a dry lubricant only.
6. Wheel bearings, washers or bushings are prohibited on the axles.
7. The car must not ride on any type of springs or flexible suspension system.
8. The car must be freewheeling, with no starting devices.
9. No loose material of any kind, such as lead shot, may be used.
10. Weights and other decorations (paint, decals, etc) can be added but must not exceed the width, length, and weight requirements of the car.
11. The axle placement may not be changed and axles must be exposed. Weights should not cover the axles. We need to be able to visually verify the axle components.
12. Other wood cannot be added to change the length of the car.
13. The mid-point of the front end of the car must be the farthest point forward.
14. Make sure there is clearance on the bottom - weights not inset may drag on the track, which may cause disqualification. Otherwise, the block may be shaped anyway that is desired.
15. Cars may not exceed 5 ounces in weight. However, in order to obtain maximum speed it is advised to be as close to 5 ounces as possible without going over. The official race scale shall be considered final.
16. **Car specifications:** Maximum Width: 2 ¾” Maximum Length: 7”
Maximum Height: 5” from the bottom of the wheels
Width between wheels: 1 ¾”
Bottom clearance between car and track is 3/8”.

Optional Pre-race weigh-in

Saturday January 28th Noon – 2 PM
Glenn Carney's home: 11015 W. 122nd Street

Race Date: Sunday January 29, 2006
Location: Blue Valley North High School Commons

Event Schedule *

Scout Level	Register and Weigh-in	Racing	Design Awards
Tiger Cubs	1:30 – 1:45	1:45 – 2:15	3:00
Wolves	2:00 – 2:15	2:15 – 2:30	3:00
Bears	2:15 – 2:30	2:30 – 3:00	3:00
Webelos I	3:00 – 3:15	3:30 – 4:00	4:30
Webelos II	3:30 – 3:45	4:00 – 4:30	4:30
Pack Champion Finals	N/A	4:30	
Parent	Any previous time above	4:45 – 5:00	Not applicable

* Please note that the times above are estimates. We will try to keep to this schedule as best as possible, but please understand that deviations from these times may occur.

Race Competition Overview – Tigers / Wolves / Bears / Webelos I and II:

1. Each grade level will have a separate competition with speed trophies awarded for the 1st, 2nd, 3rd, 4th, 5th, and 6th places. Finalists in each grade level can compete for the Pack Champion speed trophy.
2. Each boy will have the opportunity to race their car in at least 3 heats.
3. We hope to provide a 2nd track for non-competitive racing again. This allows the boys to have extra races in a supervised but non-structured environment. This will be available only to Scouts that have completed their competitive heats for the day. Parents are expected to supervise their children around the racetrack. This track will not be open until 2:15.

Design Competition – Tigers / Wolves / Bears / Webelos I and II:

1. Design trophies will be awarded as follows: Best Scout Theme, Most Patriotic, Best Sports Theme, Best Classic Car, and Most Creative. To be eligible for design awards, your car must be functional and be able to roll freely down the track in the competitive races and meet the specifications listed above.
2. Design trophies will be awarded in 2 divisions: Tigers, Bears and Wolves combined are eligible for one set of design awards as listed above, and Webelos I and II combined are eligible for one set of design awards as listed above.

Race-day instructions – Tigers / Wolves / Bears / Webelos I and II:

1. **Bring your car in a shoe box** with your name, grade level (Tiger, Wolf, Bear, Webelos-1, Webelos-2), and car number clearly marked on the side of the box.
2. Have your car ready to race before entering the building. Absolutely no graphite is allowed in the school, so you must apply graphite to the wheels before coming.
3. Cars will be inspected, weighed, marked and put in pre-race area upon registration. This year we will impound the cars and the scouts will not handle them again until their competitive racing is completed for the day. Generally, car maintenance will not be allowed between races. In order to achieve fairness to all, the race official will decide if any exceptions are to be granted and repairs allowed to a car.
4. If you are going to be absent or late, make arrangements for someone else to register your car.
5. If your car is not registered by the end of your division's registration period, you may be excluded from racing. The software program does not allow us to add a car once racing has begun for a division.

Miscellaneous - Concessions will be available for purchase.

Questions: Jerry Scheier 681-9040