

Pack 411, Monroe
Pinewood Derby Rules
March 24 - 25, 2006 at Camp Indian Trails, Allen Hall
Practice: March 24th at 6 – 8 PM
Registration: March 25th at 3:00 - 3:30 PM
Race: March 25th at 4:00 – 6:00 PM

1. ENTRY

- 1.1. Each Cub Scout, (including Tiger Cubs and Webelos) of the participating units, may submit in person, as owner, (only) one car entry in the event. Entry constitutes agreement to these rules. (This can be done the day of practice or on race day; the Scout must be present for registration of his entry but not necessarily for the race).
- 1.2. The Race Committee includes: The Race Committee Chairman, the Registration Team, and Race Officials. Appeals of any Race Committee decisions should be immediately brought to the attention of the Race Committee Chairman, who will consult with the appropriate members, and render a final decision.
- 1.3. Each entry must pass inspection, then be registered with the Official Registration Team before it may compete. The inspection/registration table will open one hour before race time and will remain open until at least five minutes before the scheduled race time, or if necessary, until those waiting to register have done so. The table will not wait for anyone to complete modifications, if it may otherwise close. The races will not begin until the inspection/registration table has closed.
- 1.4. All cars will be inspected for the items listed in the Specifications section of these rules. An owner will be informed of any noncompliance. Modifications may be made and the car re-submitted for inspection by returning to the end of the inspection/registration line. Maintenance and/or lubrication is prohibited after inspection.
- 1.5. A car that has passed inspection will be immediately considered registered. The car owner's name and unit will be recorded and a unique identification will be placed on the car so it may be visible from the top if at all possible. A similar identification will be marked on the back of the owner's right hand.
- 1.6. Once registration is complete, the car will be moved to pit area as instructed by the Race Official. After the car is registered, repairs will be limited to replacement of axles/wheels that are broken/lost during the race. All owners and spectators will remain outside the pit and track area at all times, except as directed by a Race Official.

2. SPECIFICATIONS

******Scouting encourages good Sportsmanship******

Cars will be disqualified if the Scout or his parent display un sportsmanlike conduct on the race site.

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2.1. Construction and Materials.

- 2.1.1. The car must have been constructed in within the last eleven months.
- 2.1.2. The car must be constructed of wood from the Official BSA Pinewood Derby Kit. Liquids and loose materials of any kind, in or on the car are not acceptable.
- 2.1.3. Only official Cub Scout Grand Prix Pinewood Derby wheels and axles are permitted. Axles may be polished. Wheels may be lightly sanded to remove the mold projections on the tread. This sanding is the only wheel modification allowed. **Wheels that have been beveled, tapered, or thin sanded, or lathe turned will not be acceptable.**
- 2.1.4. Wheel bearings, wheel covers, washers and bushings are not acceptable.
- 2.1.5. The car shall not ride on any type of springs.
- 2.1.6. The car must be freewheeling with no starting devices or other propulsion.
- 2.1.7. Only **dry powder lubricants**, such as graphite, may be used on the axles. Lubrication on any other part of the car is cause for disqualification. **There can not be any loose Graphite on the outside surface of the wheels.**

2.2. Dimensions

- 2.2.1. Overall width (including wheels) shall **not exceed 2 ¾ inches. Do Not Alter The Width Of The Car At The Axles!**
- 2.2.2. Overall length shall **not exceed 7 inches.**
- 2.2.3. Overall height shall **not exceed 3 inches.**
- 2.2.4. Wheelbase front and rear axles may be modified, as long as the overall length does not exceed 7 inches.
- 2.2.5. The minimum clearance between a flat surface upon which the car is placed and the bottom of the car should be no more than 3/8 inches.

2.3. Weight

- 2.3.1. All cars will be weighed using a designated 'official scale' whose reading will be considered final. The weight of any car shall **not exceed five (5) ounces.**

3. LOGISTICS

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1. A four-lane track with electronic timer and starting line will be employed. Each car will be run on each lane with the race times being totaled or averaged. Cars will be assigned a different lane in each heat, such that each car will have raced in all four lanes. An attempt will be made to prevent the same cars from racing together in different heats. The individual cumulative totals or individual average for the four heats will be used to determine the winners of the event.
2. Each race will be announced and the cars placed on the start line by a Race Official(s).
3. The Starting Line Race Official will make sure the cars are on the track properly, wait for the Computer Ready Signal from the Race Chairman and start the race.

4. If a car leaves the track, runs out of its lane, interferes with another car, or otherwise fails to pass the electronic timer, the race shall be rerun. If the same car has trouble on the second run, the car will be disqualified from that heat. If on the second run another car is interfered with, the race will be rerun without the disqualified car. The disqualified car will be assigned a time equal to 9.999 seconds.
5. When the cars come to a complete stop at the finish line, the Finish Line Race Official will place the cars in a protective transport box and return the cars to the pit area.
6. If it is the Race Chairmans opinion that the electronic timer has failed to properly perform, the race will be rerun.
7. This process will be repeated until all cars from all groups have run in all four lanes.
8. The twelve (12) fastest cars will qualify for the Championship Race.
9. The Championship Race will follow the same format as the individual group races for the cars that qualified.

4. AWARDS

After all races have been completed, awards will be presented. Each contestant will receive a Pinewood Derby Drivers Licenses. Trophies will be awarded to the top three overall finishers and medals will be awarded to the top three finishers in each rank.

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