

BAC Regional Pinewood Derby

Official Competition Rules for 2016

The BAC is honored to have you participate in the first Regional Pinewood Derby. The Pinewood Derby has been a part of the Cub Scout Program since 1953. As its popularity has grown over the last 60 years, the Pinewood Derby has evolved and different Councils have adopted different rules for competition. To ensure that this event is truly representative of all Cub Scouts and allows all qualifying Scouts to compete on an equal racing field, there are two Racing Divisions: Stock Car Series and Pro Stock Series.

Basic Qualification:

Competition in the Regional Pinewood Derby is open to all 2016 Cub Scout Pinewood Derby. The youth must be a registered Cub Scout at some point since January 1st, 2016. Boys that began the calendar year as a Webelos Scout and have since transitioned to a Troop are eligible to compete.

Check-in:

Each car entered to race must pass through inspection by the Regional Championship Inspection Committee on race day, where it will be evaluated for basic specifications.

Participants will have the opportunity to make needed adjustments to bring their car into compliance prior to the start of the race should modifications be needed. Modifications must be completed 10 minutes prior to the start of the first race or the car cannot run. Any lubrication must be applied prior to final inspection.

After a car has passed inspection, it will be placed in a designated ready-to-race location. It will remain there until all races have been completed. Only Race Officials will handle the car until the final Award Ceremony has been completed.

If a racer arrives too late to race at their scheduled competition, they will have an opportunity to race their car on an open class competition.

Officials have the Right to Disqualify Any Car, which does not meet all of the stated rules and specifications. The Officials Decision is Final. If a Race Official makes a ruling and you wish to appeal it, a majority of Officials will be assembled and based on majority rule the decision will be upheld or overturned.

Basic Car Specifications:

Dimensions and weights:

- Cars must have been built during the 2016 Pinewood Derby racing season using an Official BSA Pinewood Derby Kit.
- Width, including wheels and axles, must not exceed 2¾ inches (7cm).
- Length shall not exceed 7 inches (17.8cm).
- Weight shall not exceed 5.0 ounces, which is 143.4 grams measured on an official scale. Overweight cars must be reduced to running weight or below before they can be entered. The official race scale shall be considered final.
- Cars must clear the center rail of the track, which is 1 5/8 inches wide by ¼ inch tall along the entire length of the car. Minimum clearance between the bottom of the car and the bottom of the wheels shall be 3/8 of an inch to avoid contact with the tracks center guide strip.
- No part of the car may protrude beyond the starting pin. The front edge of the car must not be more than 1 inch above the wheel lane of the track and be at least 1/2 inch wide at the center of the car.
- Any details added must be within length, width, and weight limits.
- No loose materials shall be allowed on the car, all components of the car must be secured to the car. All weight must be securely fastened or embedded in the car.

Examples of Prohibited Items which CANNOT be used:

- Magnets, springs or suspension systems of any type.
- Starting devices, finish line devices, propellants, or propulsion systems
- Wet paint, or Sticky substances
- Glass or excessively fragile parts
- Electronic or lighting devices (if lights are on the car they must be turned off)
- No Bearings or Solid one-piece rod style axles
- Axles and wheels attached to any device that mechanically alters rotation or spin.

Wheels, Axles and Suspension:

- Only official BSA Pinewood Derby Kit wheels, either new or old style, and BSA axles may be used. Wheels may be lightly sanded to remove the mold projection. This very light sanding is the ONLY wheel modification allowed. All markings must be intact on inside and outside of wheel. Colored BSA wheels are permitted.
- Wheel modifications such as beveling, tapering, smoothing the inside, coned hubs, ball-reamed axles slots and any other modification is strictly prohibited and will unfortunately fail inspection.
- BSA axles may be polished and lubricated. No lubricating oil or liquid lubricant of any kind may be used. Only powdered graphite is permitted.

Lubrication:

- Graphite is the only lubricant allowed at the World Championship Pinewood Derby for the 2016 race.

Race Operations and Miscellaneous Rules:

- If a car suffers a mechanical problem during a race (i.e loses an axle, breaks a wheel, etc...), the participant and/or a designated adult will have up to five minutes to fix the car. The race will NOT be rerun, nor can ongoing races be delayed.
- If a car leaves the track during a race, the race will be rerun. If the same car leaves the track a second time during, the car will be judged "last place" in that race.
- If a car leaves its lane, Race Officials, at their discretion, may inspect the track and, if a track fault is found which may have caused the initial violation, the Race Officials, at their discretion, may order the race to be rerun after the track is repaired.
- In the event of Starter interference, the race will be re-staged and rerun.
- The track's electronic timers will record finishing place for all cars in each race. In the event of technical difficulties, the Finish Line Judges will determine the order of finish.
- Only Track Officials will be permitted in the track area.
- Track Officials are responsible for the proper conduct of the races. Good sportsmanship and behavior is expected for all attendees. Race Officials may ask anyone not following this rule to leave.
- Please make note that all decisions of the Official Inspection Committee are final.

Race Methodology:

- Each car will race once in every lane (4 times). Each race is timed with electronic equipment. In the event the equipment fails, the race(s) will be re-run.
- The slowest time will be dropped and the average of the remaining 3 times will determine the results for each racer.