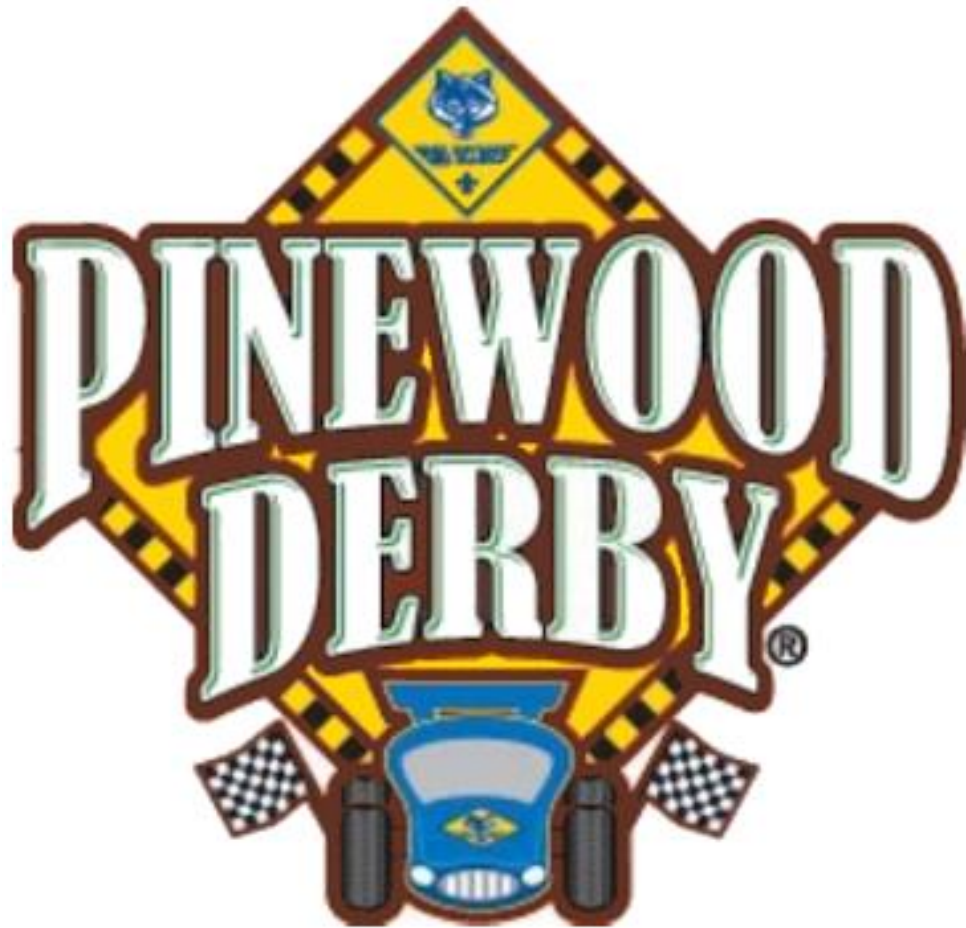


FISHAWACK DISTRICT
2018
CAMPOREE AND
DISTRICT CHAMPIONSHIPS



2018 FISHAWACK DISTRICT PINEWOOD DERBY

Fishawack District will hold two Pinewood Derby Races on Saturday, April 14, at Alfred Vail School in Morristown. The District Pinewood Derby is open to all Tiger, Wolf, Bear, Webelos, and Arrow of Light Scouts who came in 1st, 2nd or 3rd for their rank at their pack's 2018 Pinewood Derby. The District Pinewood Derby will run from 10:00 am to 2:00 pm. Online registration will be open through the Fishawack calendar at www.ppcbsa.org from February 14 to April 5.

When Scouts check-in, their car will be inspected, certified and placed in a holding pen. Total aggregate time of multiple runs will determine the winners for each Rank.

Certification will be based on rules listed below. Cars must fit within the High Speed Car Alignment template that is available in the Scout Shop.

We expect that the World Pinewood Derby will be held in Times Square again this year (no official announcement has been made yet) and those who finish 1st, 2nd and 3rd for their rank in the Fishawack District Pinewood Derby will qualify for the World Pinewood Derby.

The 2017 World Pinewood Derby Official Competition Rules are below. We do not expect any changes for 2018.

World Pinewood Derby **Official Competition Rules for 2017**

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 World Championship Pinewood Derby is open to all 2017 Cub Scout Pinewood Derby Finalists. Finalists are Cub Scouts that finished either 1st, 2nd or 3rd place in their respective rank (Tiger, Wolf, Bear, Webelos, Arrow of Light) within their local District or Council Championship Race. The youth must be a registered Cub Scout at some point since January 1st, 2017. 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 in a championship race must pass through inspection by the World Championship Inspection Committee on race day, where it will be evaluated for basic specifications and then placed into one of the two Divisions based on wheel, axle and suspension attributes.

Participants will have the opportunity to make 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 staging 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 a non-competition exhibition track.

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 2017 Pinewood Derby racing season using an Official BSA Pinewood Derby Kit.
- Width, including wheels and axles, must not exceed 2¾ inches (6.99cm).
- Length shall not exceed 7 inches (17.78cm).
- Weight shall not exceed 5.0 ounces (141.75 grams) measured on a scale accurate to 1/10th of an ounce. 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.
- All cars must have a wheel base no less than 4 inches (101.6 mm), with the two rear wheels being positioned directly across the body from one another and the two front wheels being positioned directly across the body from one another. Maximum allowable wheelbase shall not allow any portion of the wheels to extend beyond the front or rear of the car.
- No part of the car or any attachment to the car may be capable of coming into contact with the track other than the wheels.

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.
- Loose objects on car. All weight must be securely fastened or embedded in the car.

Wheels:

- Use only Official BSA Wheels; colored wheels are permitted.
 - All lettering and numbering, both inside and outside, must remain complete and be visible. No wheel covers, inside or outside, may be used.
 - The fluting and other BSA markings on the outside wheel area must remain visible.
 - Outer wheel surface (tread area only) may be lightly sanded, shaved, or polished to remove minor surface imperfections, mold casting burrs, and correct off center wheel bores; but total wheel diameter may not be reduced below 1.170 inches (29.72mm). Outer wheel surface must not be reshaped or have the contour changed in any way in an attempt to minimize tread

contact or alter aerodynamics.

- o Tread surface must be flat and parallel to the wheel bore.
- o Coning the hubs and truing the inside tread edge is allowed, as long as overall wheel width is not reduced below 0.36 inches (9.14 mm).
- o No material may be removed from the inside wheel surfaces at any point.
- o Minimum outside diameter of wheel must be equal to or greater than 1.170 inch (29.72mm), in order to maintain the ridges on the outer edge.
- o Judges reserve the right to measure the wheel with calipers to verify dimensional compliance with official wheel size restrictions.
- The weight of the wheel shall not be increased or decreased except where limited amounts of material are removed from the tread or inside tread edge to remove minor imperfections. No material such as glue, fingernail polish, or tape, may be added to the inside of the wheel increasing its weight.
- Wheel Bore treatment is allowed including polishing and/or tapping. Wheel bores may not be filled and re-drilled to alter bore diameter or to achieve better fit with the axle (no material may be added to the wheels).

Please note: There are after-market modified wheels available that have been LIGHTENED. This is usually done by turning the wheels on a lathe and removing material from the inside of the wheel. These wheels are NOT allowed and can be EASILY RECOGNIZED at inspection. Cars with third party manufactured or modified wheels will not be permitted to race.

The following diagram offer wheel measurements and examples of disqualifying wheel modifications.

CLARIFICATION OF DISQUALIFYING / ALTERED WHEELS

No alteration, narrowing, lathe cutting, or reshaping of wheels (inside or out) is allowed!!!!

<p>STANDARD WHEEL</p>	FAIL	FAIL	FAIL	FAIL	
	<p>ROUNDED WHEEL</p>	<p>V WHEEL</p>	<p>CUPPED WHEEL</p>	<p>REDUCED DIAMETER</p>	
FAIL	FAIL	FAIL	FAIL	FAIL	FAIL
<p>H WHEEL</p>	<p>RIBBED WHEEL</p>	<p>SPEED WHEEL</p>	<p>SLANTED OUT</p>	<p>SLANTED IN</p>	<p>KNIFE EDGE</p>

NO LIGHTENING OF THE WHEEL IS ALLOWED

LIGHT SANDING OF WHEEL TREAD TO REMOVE IRREGULATIES IS PERMISSABLE. WHEEL TREAD MUST BE FLAT!
 MINIMUM WHEEL DIAMETER ALLOWABLE IS 1.170 INCHES.
 MINIMUM WHEEL WEIGHT OF EACH WHEEL IS 2.45 GRAMS.

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.
- In the event of a mid-race timer failure, the Official Race Committee will determine the best approach to racing based on the circumstances. All decisions of the Official Race Committee are final.
- 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 Race Committee are final.

Race Methodology:

Regular Racing

- Each car will race once in each lane of the track. Each race is timed with electronic equipment. In the event the equipment fails, the heat(s) will be re-run.
- The slowest heat time will be dropped and the accumulation of the remaining times will determine the standings for each racer.
- Racing Rounds for will be created based on attendance, check-in and inspection order, and other event and logistic factors.
- At the conclusion of a Round, that Round's standings will be displayed. Multiple Rounds in a may be required to accommodate all entrants.
- At the conclusion of regular racing, data from all rounds will be combined

Determining Regular Racing Winners

- The top 3 fastest cars from each Rank will be crowned the winners. This will be the 1st, 2nd, and 3rd place Tigers, Wolves, Bears, Webelos and Arrow of Light Scouts.

Trophy Ceremony

Trophies will be conferred at the conclusion of the District Pinewood Derby.

Fishawack District Pinewood Derby Winners:

- o 1st – 3rd Tigers
- o 1st – 3rd Wolves
- o 1st – 3rd Bears
- o 1st – 3rd Webelos
- o 1st – 3rd Arrow of Light

We expect that these 1st through 3rd Place Winners qualify for the World Pinewood Derby.