

# Official Rules for the 2021 Pack 6 Crestwood Pinewood Derby

Pack 6 Crestwood's official rules supersede the rules that come with the BSA Pinewood Derby Car Kit and conform to the Algonquin District Rules.

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**Race Date: Sunday, May 23, 2021 at Redmond Field, 115 Cook Avenue, Yonkers NY**

NEW \$10 Race fee per car (pay at the door) to defray field rental fees

Shop Days: See separate email to sign up for help cutting the block of wood

Check-In & Inspection: To be announced.

Race: Afternoon; Exact time to be announced.

1. The Pinewood Derby is meant to be a fun event for Cub Scouts and a fond memory for them in the future. Good sportsmanship and Scout Spirit is expected by scouts, parents, and all spectators.
2. A scout may only enter one car into the Pinewood Derby race. \$10 fee per entry.
3. **For 2021 only**, a parent may check in his/her scout's car. In all other years, the Cub Scout **MUST** be present at the Check-In & Inspection to enter his own car into competition.
4. Uniform: **For 2021 only**, a participating Cub Scout must wear his Cub Scout uniform OR a sports team uniform.
5. **The Pack will have two types of competitions at the Pinewood Derby, one for speed and one for design.** All cars are eligible for both competitions.
6. **Construction of all entries MUST have begun AFTER Nov 1, 2020.** Cars made for prior years' races are not allowed.
7. All cars entered must be built using Official Pinewood Derby materials as sold by the BSA and as also offered at the Greenwich Scout Shop, 63 Mason Street, Greenwich CT HOURS: Mon-Fri, 9am to 5pm. Materials include:



Can be purchased on your own



Available in assorted colors.

## BSA Pinewood Derby Car Kit

(uncut block of wood, nails (axles), and four wheels), Item #17006:

<https://www.scoutshop.org/official-pinewood-derby-car-kit-17006.html>

## BSA's brand new "Pre-Cut Pinewood

**Derby Wedge Kit"** (wood only; BSA axles and wheels purchased separately) (Item #614417

<https://www.scoutshop.org/pinewood-derby-pre-cut-wedge-614417.html>

## Official Pinewood Derby Wheels

**and Axles** (Item #s 17553-17556)

<https://www.scoutshop.org/pinewood-derby-green-wheel-axles-647054.html>

**Please work with your son to make his own car. Separately purchased items** such as a contoured pinewood bodies (e.g., pre-cut cars or pre-made cars from Michael's craft store or from an online retailer); machined wheels; solid, bent, and/or polished axles; and axle guards **are specifically prohibited and are NOT allowed**. Scouts **can add** decorative items, weights, glue, paint, lubricants, and finishing materials.

## Length, Width and Clearance

- a) NO Extended Wheel Base **Axles (nails) MUST be installed in the pre-cut slots provided by the kit manufacturer.** Do NOT create new slots. The distance between the front and rear axles is  $4 \frac{3}{8}$  inches and will be inspected during check-in.
- b) Maximum overall width: Must not exceed  $2 \frac{3}{4}$  inches (including wheels and axles).
- c) Minimum width between wheels  $1 \frac{3}{4}$  inches (so car will clear the center guide strip).
- d) Minimum ground clearance  $\frac{3}{8}$  <sup>th</sup>s of an inch (between the bottom of the car and the bottom of the wheels) so the car will clear the center guide strip. If you add weight to the bottom of the car, cut out a notch so the weight is even with the bottom of the car and doesn't stick out.
- e) Maximum length Must not exceed 7.0 inches.
- f) Maximum height Must not exceed 5.0 inches from the bottom of the wheels to highest point on car.

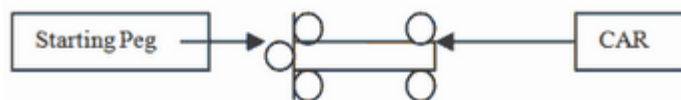
## Weight and Appearance

- g) Maximum Weight is 5.0 ounces (141.7 grams). The readings of the official race scale will be considered final. If a car is overweight, or very underweight, racers will be allowed make adjustments at Check-In. **Racers are advised to bring a personal supply of weight and tools to make any adjustments or modifications during check-in/inspection. Be Prepared--the Pack does not supply extra weights.**

\*A note regarding weight: The block of wood in the kit weighs around 2 ounces. You must add weight to the car so that it weighs up to, but no more, than 5.0 ounces. TIP! If you add weight to the bottom of the car, cut out a notch so the weight is set into the bottom of the car and flush with the bottom of the car. This will ensure it conforms with the minimum ground clearance of  $\frac{3}{8}$  <sup>th</sup>s of an inch. The minimum ground clearance prevents the bottom of the car from dragging along the track and never reaching the finish line.

The car may be hollowed out and built up to the maximum weight by the addition of wood, metal, plastic wood or metal filler only, provided that these materials are securely built into the car body or firmly affixed to the car body. No loose materials of any kind are permitted in or on the car.

- h) "Indented noses" are prohibited. The forward-most part of the car must contact the starting gate (starting peg) as shown in the diagram below:



No part of the car may protrude beyond the track start gate starting pin. The front edge of the car must not be more than 1 inch above the track surface and be at least  $\frac{1}{2}$  inch wide at the center of the car.

- i) Details, such as steering wheel, driver, spoiler, decals, painting, and interior details are permissible as long as these details do not cause the car to exceed the maximum length, width, and height specifications. Any item exceeding the maximum specifications must be removed at inspection. No loose material or moving parts of any kind (including fabric).
- j) Cars with wet paint will not be accepted to race.

## Wheels and Axles

- k) ONLY the Official BSA Pinewood Derby Wheels and Axles (axles are the four nails provided in the kit) may be used. You may use the black wheels provided in the official kit or you can purchase different colored wheels as sold by the BSA. No other manufacturers are permitted.

Separately purchased items—even if they are a BSA product—such as machined wheels, Pinewood Derby Lathed BSA Speed Wheels, solid, bent or polished axles, axle guards, “speed kits,” wheel bearings, washers, or bushings are specifically PROHIBITED.

- a. The ONLY wheel modification allowed is to lightly sand the wheels to remove any mold projection (flash) on the tread. However, this should not be necessary since the current manufacturing process has rarely produced a mold projection.
  - b. The following wheel modifications are strictly prohibited: Beveling or tapering of the wheels (lathed wheel tread), smoothing the inside edge of the wheels, coned hubs, ball-reamed axle slot, and any other wheel modification.
  - c. The ONLY axle modification allowed is to lightly polish the axle as part of the construction process. Axles may be canted for alignment purposes.
  - d. The following axle modifications are strictly prohibited: Bent axles (bent on your own or purchased) and purchased polished axles.
  - e. Solid axles (a bar that connects two wheels) are strictly prohibited.
- l) **All four wheels must touch the track surface.** Cars shall not ride on any type of springs.
- m) **The car must be free-wheeling**, with no starting devices or other propulsion.

## Additional Rules

8. **Inspection & Corrections for Non-Compliance:** Each car must pass inspection by the Official Inspection Committee before it may compete. If a car does not pass inspection, the owner will be informed of the reason for failure and will be given time within the official Check-In time period to make the required adjustments.
9. **Lubrication:** Only dry lubricant, such as graphite, is permitted. Oils and silicone sprays are specifically prohibited as they may damage the track. All lubrication of wheels must take place prior to final inspection at the Check-In and Inspection. There will be no lubrication between racing heats.
10. **Impounding:** Once a car is registered, the Cub Scout will not have access to his car until the race concludes and the winners have been announced.
11. **Repairs & Re-Inspection:** If a car is damaged while racing, you will have a few moments to quickly repair the car at which point the car must be re-inspected and meet original race specifications before it can race again. Cars can be re-inspected at any time and must be brought into compliance before their next scheduled race or be disqualified. (This rule is designed to make sure that a judge’s error during the initial Check-In does not preclude Track Officials from correcting a previous judging error.)
12. **Race Committee has the final say on any and all disputes.**
13. **Track Access:** Only Track Officials will be permitted in the track area. This rule will be strictly enforced.
14. **Scout Spirit:** Any participant or spectator who exhibits unsportsmanlike behavior will be asked to leave the premises at the absolute discretion of the Track Officials.
15. **Have Fun!!**