

2019 South Mountain District Pinewood Derby Race® Quick Reference

This guide is for families looking to build a car that meets the South Mountain District (SMD) Pinewood Derby® (PWD) Race Rules, with a minimum of fuss:

- 1) Refer to the SMD PWD Inspection Checklist on next page. This checklist will be used by the inspectors at the SMD PWD Race. The sheet in the kit box is also good information.
- 2) Use the materials that come in the Official BSA Pinewood Derby® Car kit.

The Pinewood Block The Nails The Wheels The Info Sheet

- a) Do NOT use kits from other sources.
 - b) Do NOT use pinewood blocks, nails, and/or wheels from other sources.
 - c) If something breaks, go to the Minsi Trails Scout Shop and buy another kit or wedge or tube. Don't go to any other store, their parts will NOT pass the inspection.
- 3) Your pack's scale will probably not exactly match the scale used at the District Race, so don't be surprised if you need to remove a small amount of weight to meet the maximum 5.00 ounces.
 - 4) Do NOT put thick and/or wide weights on the bottom of the pinewood block. They may cause your car not to roll on the SMD track. That's why there is a minimum ground clearance.
 - 5) The axle tips must be easily visible for inspection.
 - 6) All four wheels must touch the track at the same time.
 - 7) Dry graphite lubricant ONLY.
 - 8) If you follow the SMD PWD checklist, you *should* not have a problem during the SMD PWD Check-In. But if the car does not pass the full rules, and it is safe to race*, your car will run on the track at the District Race. The car just won't be eligible for a speed trophy. It will still be eligible for one of the specialty awards.
* - The car must roll freely on the track, not interfere with the other cars and not have any loose or dangerous parts.
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The long version of the District Rules explains in great detail what is needed for families looking to build a car for maximum speed. Cars will be inspected to these rules. These longer rules are based on the NYC World Championship Pinewood Derby Race rules.

ASK QUESTIONS WELL BEFORE YOUR PACK'S RACE.

Reach out to your Pack PWD Chair for clarification for your Pack's race rules. Refer to the Long Rules FAQs section for expanded explanations for the District Rules. For the final answer to questions about the SMD PWD Race Rules, reach out to the SMD PWD Chair, Chris Van Camp at 513-253-8174 (M) or jcvancamp@yahoo.com.

Whichever flavor of car you decide to build, have fun!

2019 SMD PWD Race Inspection Checklist

Overall Car & Weight

- | | |
|--|---|
| <input type="checkbox"/> Car Presented by Cub Scout
<input type="checkbox"/> Racing Team Present
<input type="checkbox"/> <u>BSA PWD PINWOOD</u>
<input type="checkbox"/> <u>WEIGHT ≤ 5.00 OUNCES</u>
<input type="checkbox"/> If Lights , Turned Off | <input type="checkbox"/> Cub Scout in Class " A " uniform
<input type="checkbox"/> Scout Built This Season from Scratch
<input type="checkbox"/> Unaltered Since Pack Inspection
<input type="checkbox"/> No Moving Weights or Liquids
<input type="checkbox"/> No Fragile or Loose Objects |
|--|---|

Dimensions

- | | | |
|---|--|---|
| <input type="checkbox"/> LENGTH = 7"
<input type="checkbox"/> WIDTH (Between Wheels) ≥ 1¾"
<input type="checkbox"/> No Protrusion Beyond Starting Pin
<input type="checkbox"/> Front & Back Lengths 1" & 1 5/8"
<input type="checkbox"/> Bottom Front of Car ≤ 1" High
<input type="checkbox"/> No Sticky Substance /Wet Paint | <input type="checkbox"/> OVERALL WIDTH ≤ 2¾"
<input type="checkbox"/> Original Wheelbase 4 3/8" Used
<input type="checkbox"/> Wheels Don't Go Beyond Car Body
<input type="checkbox"/> GROUND CLEARANCE ≥ 3/8"
<input type="checkbox"/> Nose ≥ ½" Wide , Centered Front
<input type="checkbox"/> <u>GRAVITY ONLY</u> / No Propulsion System | <input type="checkbox"/> Height ≤ 6"
<input type="checkbox"/> Wheels Don't Go Beyond Car Body
<input type="checkbox"/> GROUND CLEARANCE ≥ 3/8"
<input type="checkbox"/> Nose ≥ ½" Wide , Centered Front
<input type="checkbox"/> <u>GRAVITY ONLY</u> / No Propulsion System |
|---|--|---|

Axles

- | | |
|--|--|
| <input type="checkbox"/> <u>4 BSA PWD AXLES</u>
<input type="checkbox"/> 4 Smooth but Unaltered Axles
<input type="checkbox"/> 2 Wheels & 2 Axles per Side in Grooves | <input type="checkbox"/> All 4 Axle Tips Visible
<input type="checkbox"/> <u>GRAPHITE POWDER ONLY</u>
<input type="checkbox"/> 2 Axle Grooves Visible |
|--|--|

Wheels

- | | |
|--|---|
| <input type="checkbox"/> <u>4 BSA PWD WHEELS</u>
<input type="checkbox"/> No Wheel <u>ALTERATIONS</u>
<input type="checkbox"/> All 4 have correct Lettering/Numbering
<input type="checkbox"/> No Material Added/Removed Wheels
<input type="checkbox"/> All 4 Wheels Contact Track
<input type="checkbox"/> No BEARINGS/BUSHINGS/WASHERS | <input type="checkbox"/> 4 Flat Treads Parallel to Bore
<input type="checkbox"/> No Inside/Outside Wheel Covers
<input type="checkbox"/> All 4 Sidewalls Intact (Fluting)
<input type="checkbox"/> ONLY Light Sanding of Wheels
<input type="checkbox"/> <u>NO RAISED WHEEL</u>
<input type="checkbox"/> No SPRINGS/SUSPENSION |
|--|---|